ICF-CD837

SERVICE MANUAL

Ver. 1.1 2005.07

US Model
Canadian Model
E Model
Australian Model

CD Section	Model Name Using Similar Mechanism	ICF-CD832
	CD Mechanism Type	KSM-213CDP
	Optical Pick-up Name	KSS-213C

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 8-ohm loads, both channels driven from 100 – 10,000 Hz; rated 1.0 W per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

CD player section
System:
Compact disc digital audio system
Laser diode properties:
Material: GaAlAs
Wavelength: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Frequency response:
20 – 20,000 Hz $^{+1}_{-1.5}$ dB
Wow and flutter:
Below measurable limit

Radio section
Frequency range:
FM: 87.5 – 108 MHz
AM: 530 – 1,710 kHz

General
Time display:
12-hour system
Speaker:
66 mm (2 5/8 inches) dia., 8 Ω
Power outputs:
1 W + 1 W (at 10% harmonic distortion)
Power requirements:
120 V AC, 60 Hz (Except Australian model)
230 V AC, 50 Hz (Australian model)
Dimensions:
Approx. 246 × 96 × 210 mm (w/h/d)
(Approx. 9 3/4 × 3 7/8 × 8 3/8 inches) incl. projecting parts and controls
Mass:
Approx. 1,750 g (3 lb. 86 oz.)

Design and specifications are subject to change without notice.

FM/AM CD CLOCK RADIO

9-879-522-02
2005G04-1
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Sony Corporation
Personal Audio Group
Published by Sony Engineering Corporation

SONY®

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

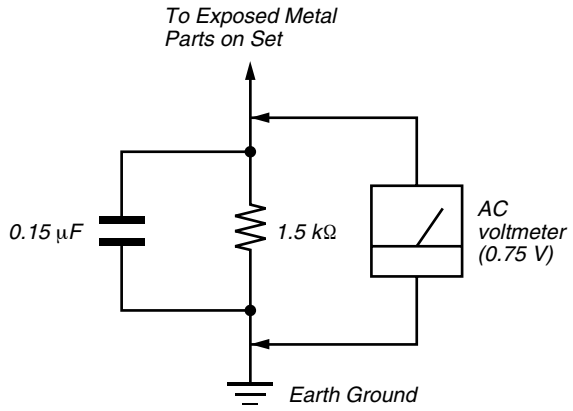

Fig. A. Using an AC voltmeter to check AC leakage.

(Fig. A)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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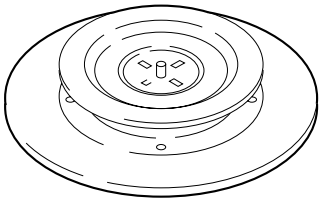
SECTION 1
SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

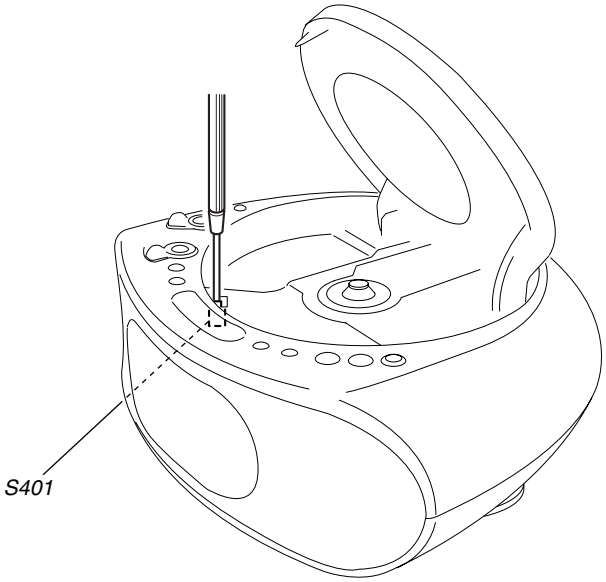
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

• Code number of Chuck Plate Jig: X-4918-255-1



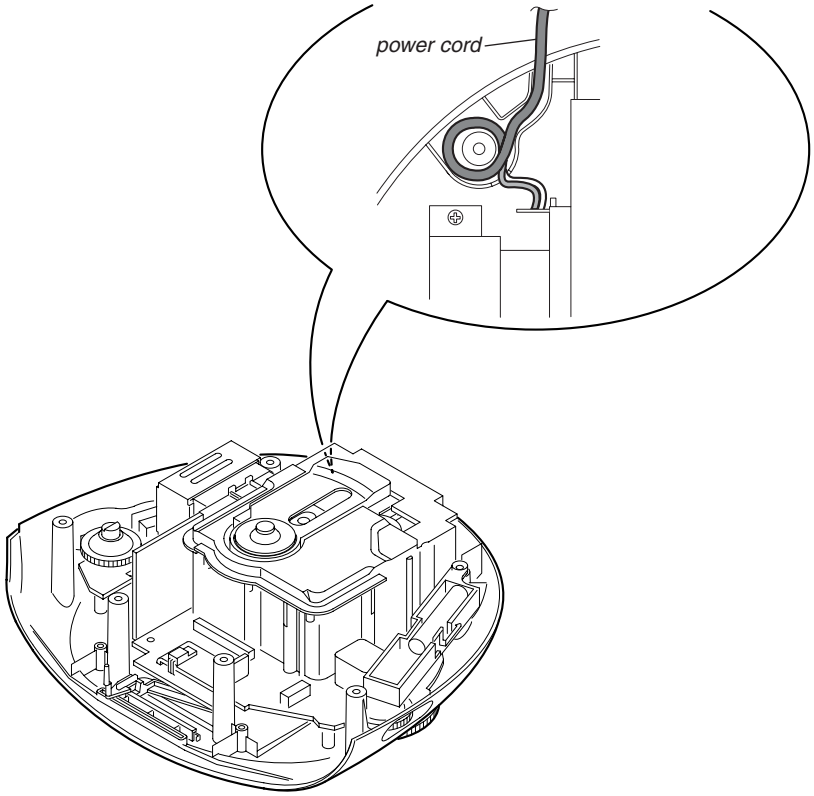
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Turn ON the [POWER] button and press [CD] button to CD position.
2. Open the CD lid.
3. Turn on S401 with screwdriver, etc. as following figure.
4. Press the [►II] (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down three times for focus search.

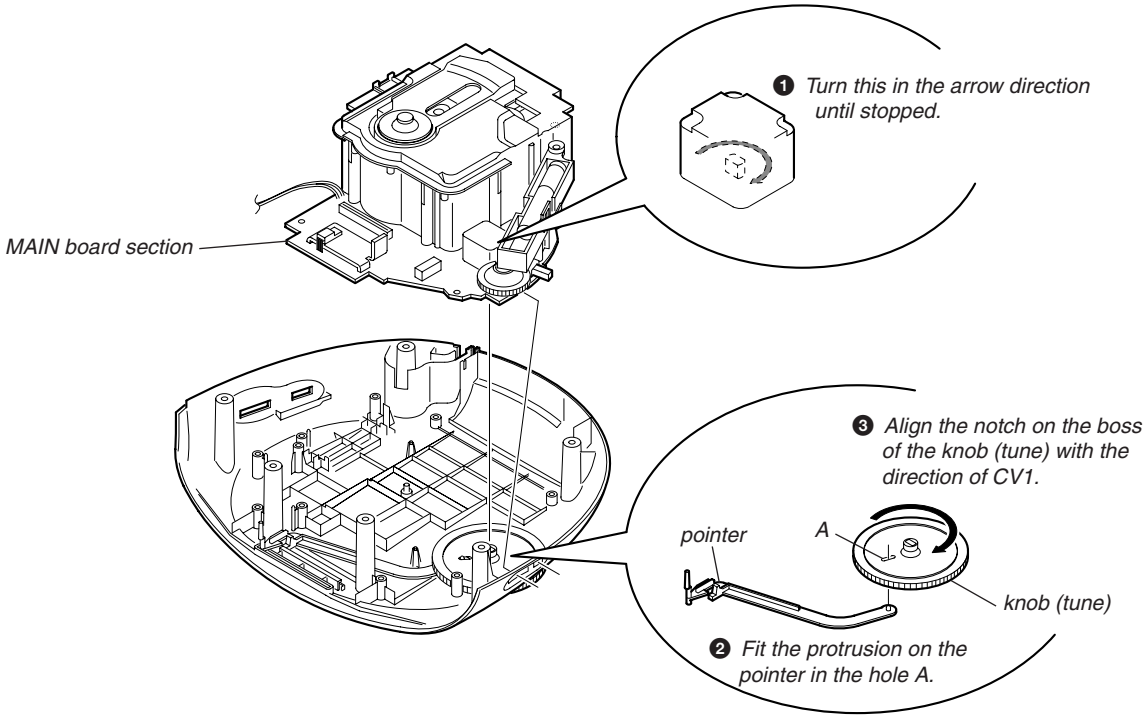


1-1. CORD DRESSING (POWER CORD)

1) Set the power cord as shown in the figure.

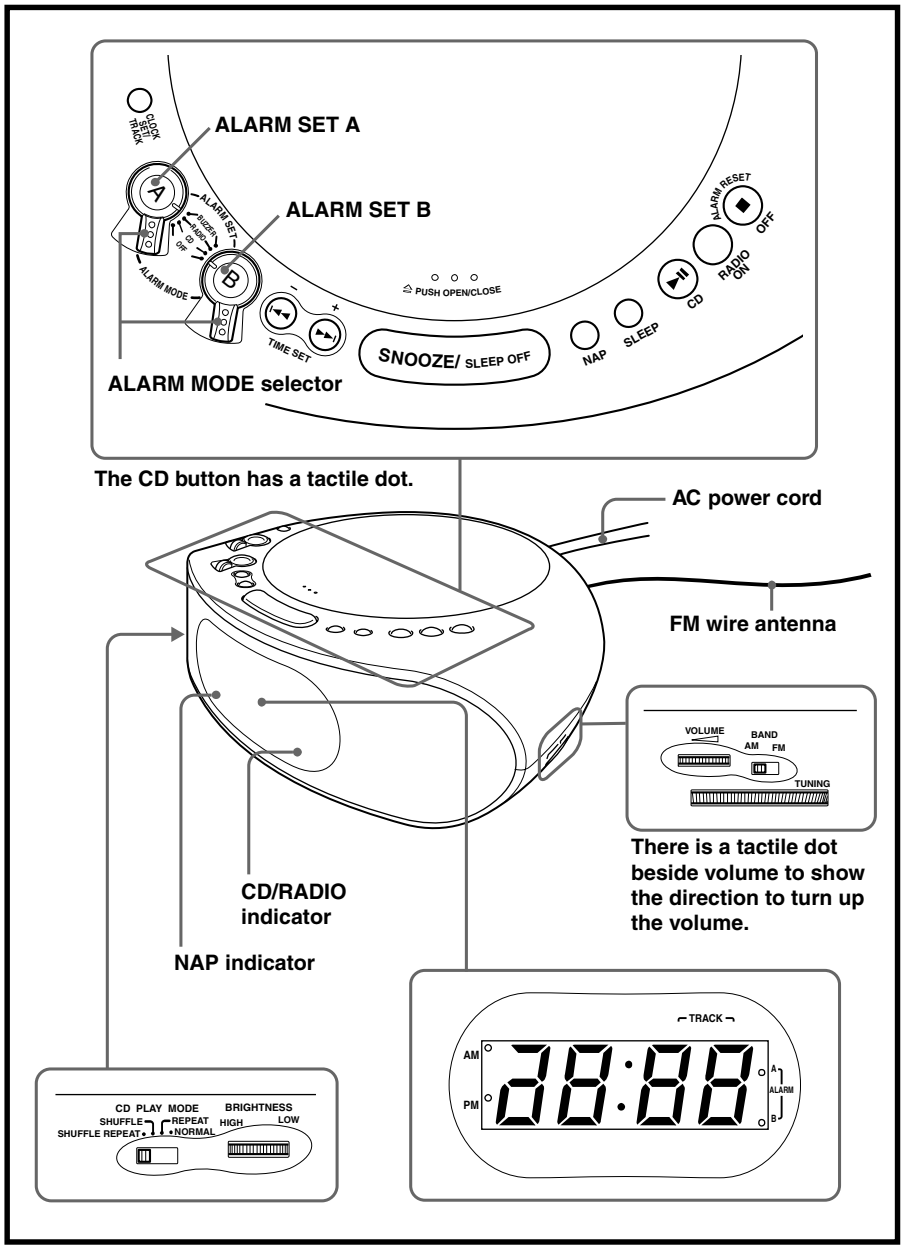


1-2. POINTER ALIGNMENT


❶ Turn this in the arrow direction until stopped.
MAIN board section
❸ Align the notch on the boss of the knob (tune) with the direction of CV1.
pointer
A
knob (tune)
❷ Fit the protrusion on the pointer in the hole A.

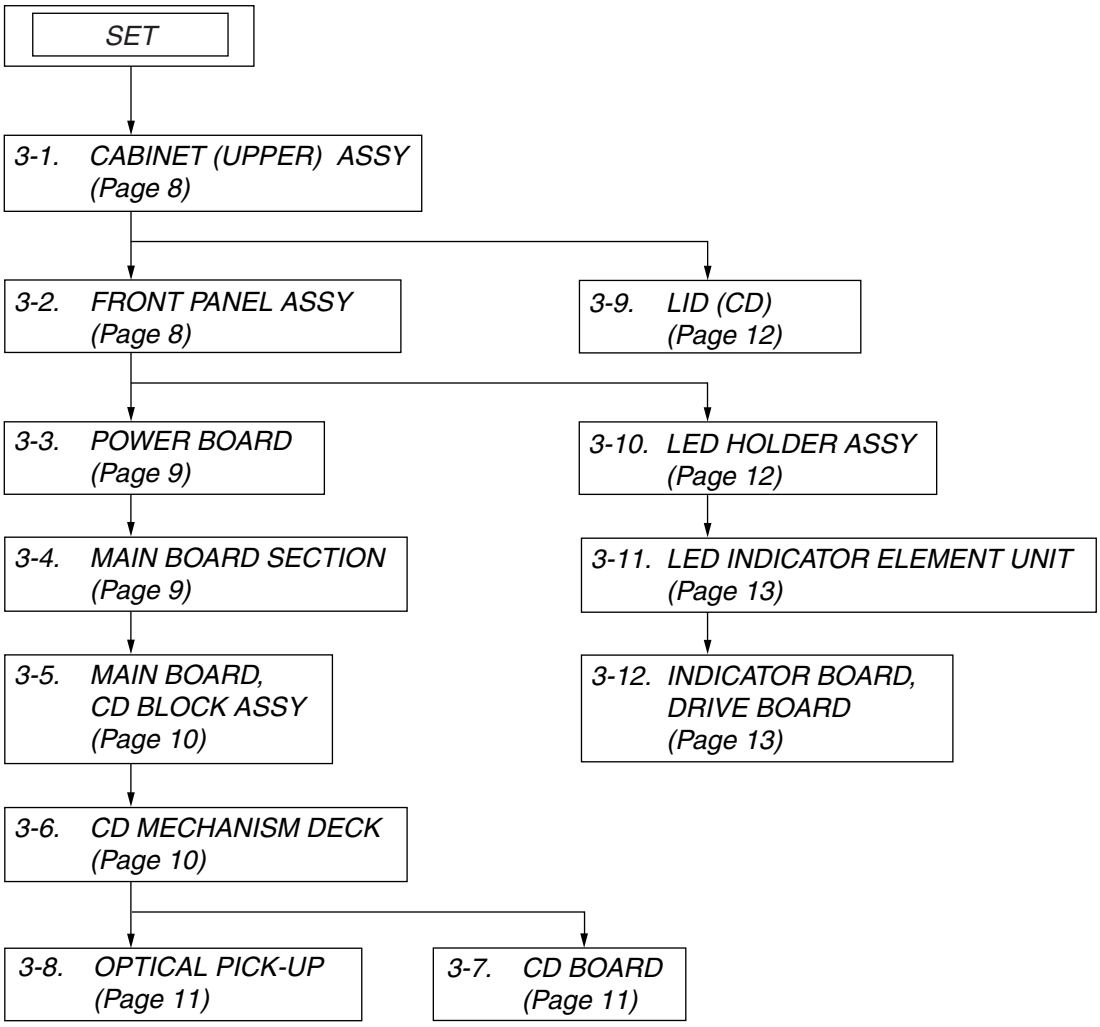
SECTION 2
GENERAL

This section is extracted from instruction manual.



SECTION 3
DISASSEMBLY

• The equipment can be removed using the following procedure.


SET
3-1. CABINET (UPPER) ASSY (Page 8)
3-2. FRONT PANEL ASSY (Page 8)
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3-3. POWER BOARD (Page 9)
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3-4. MAIN BOARD SECTION (Page 9)
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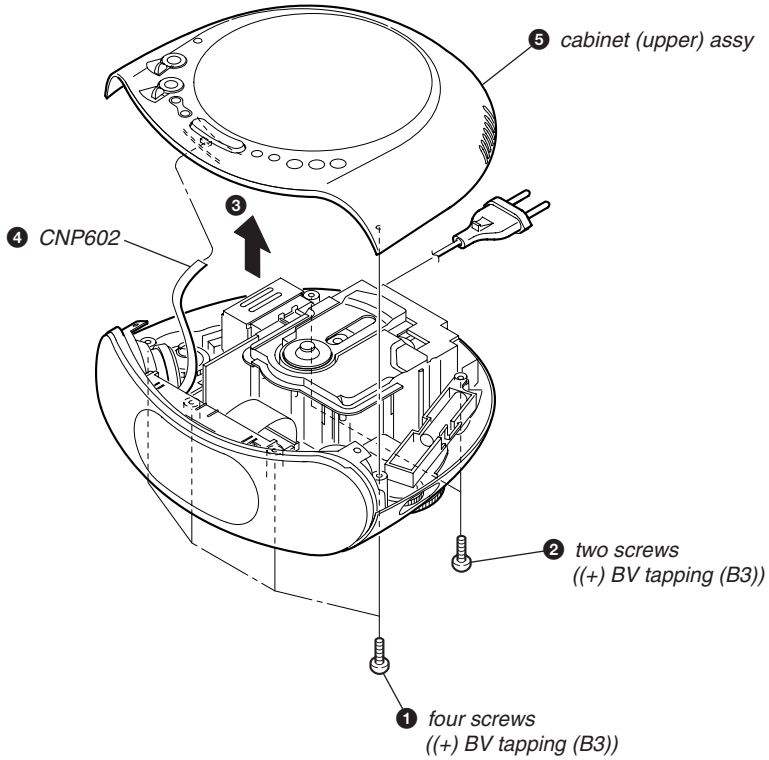
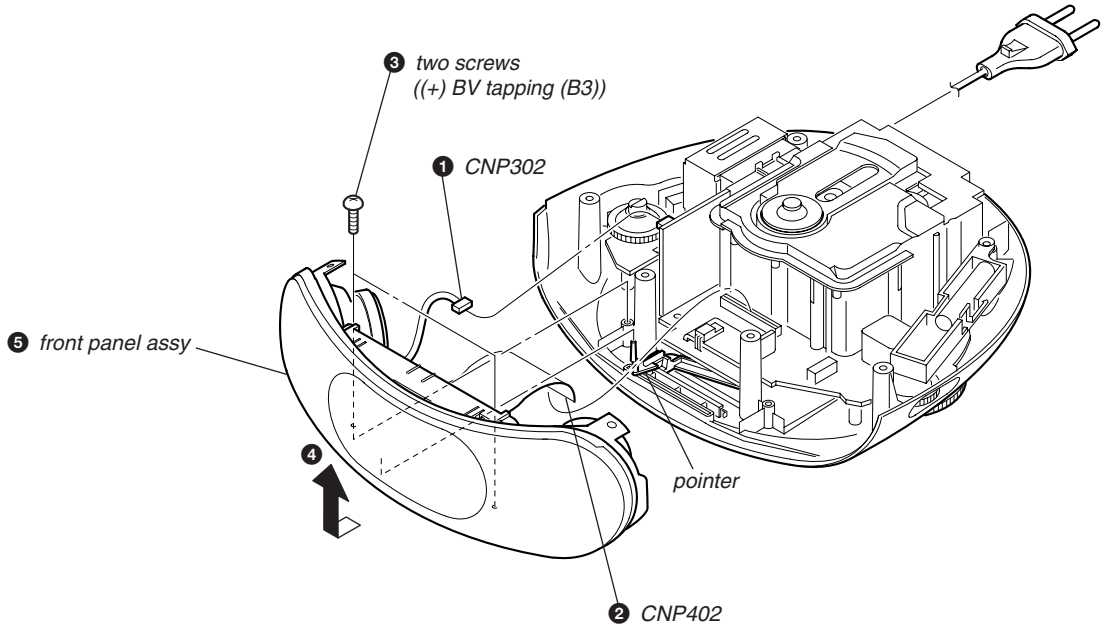
3-5. MAIN BOARD, CD BLOCK ASSY (Page 10)
3-12. INDICATOR BOARD, DRIVE BOARD (Page 13)
3-6. CD MECHANISM DECK (Page 10)
3-8. OPTICAL PICK-UP (Page 11)
3-7. CD BOARD (Page 11)

Note : Follow the disassembly procedure in the numerical order given.

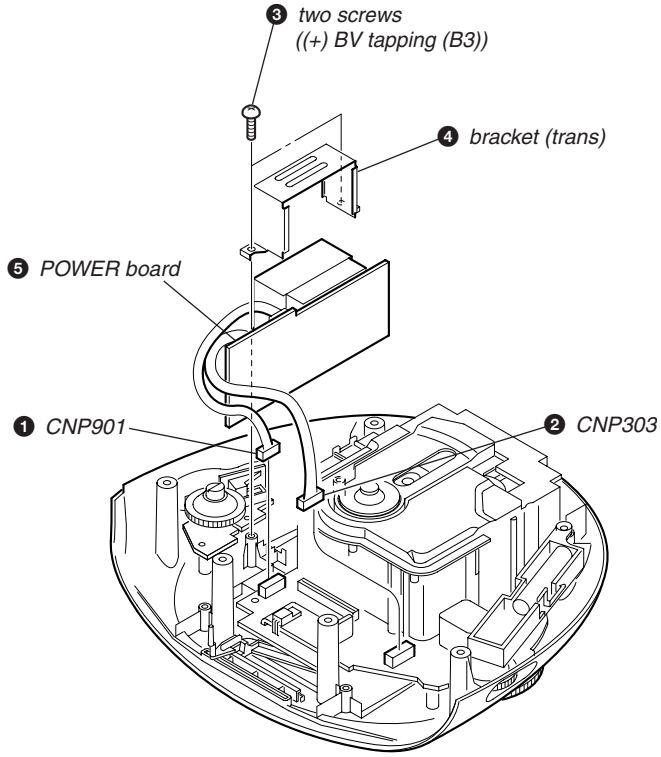
3-1. CABINET (UPPER) ASSY



3-2. FRONT PANEL ASSY

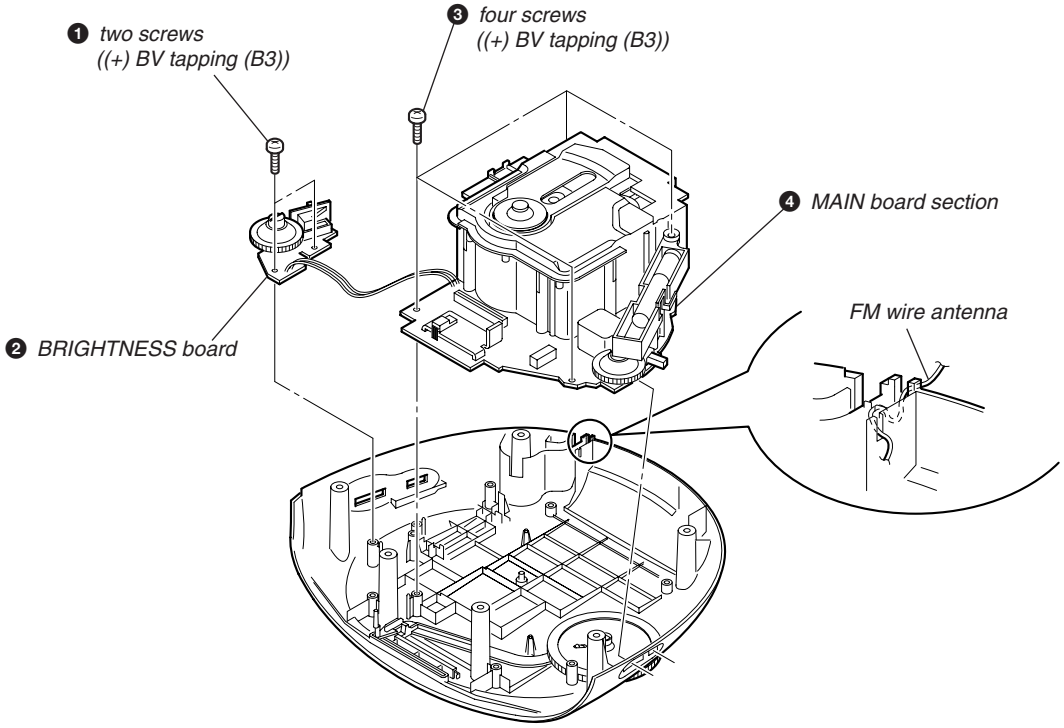


3-3. POWER BOARD

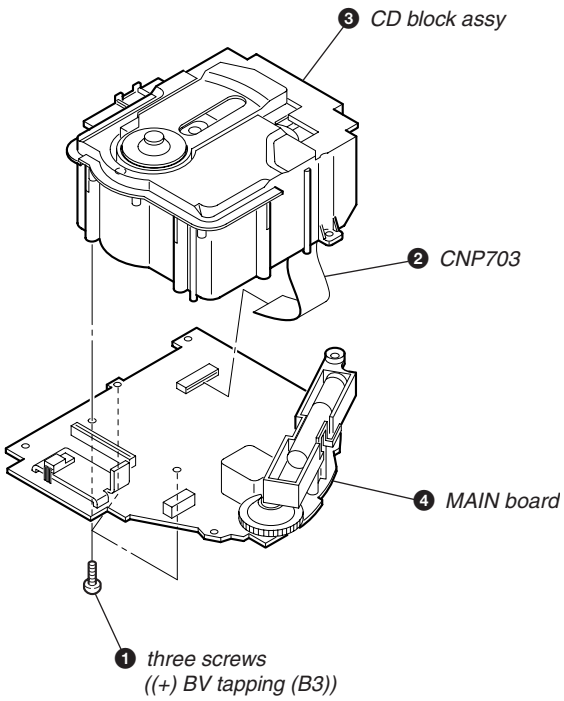


3-4. MAIN BOARD SECTION

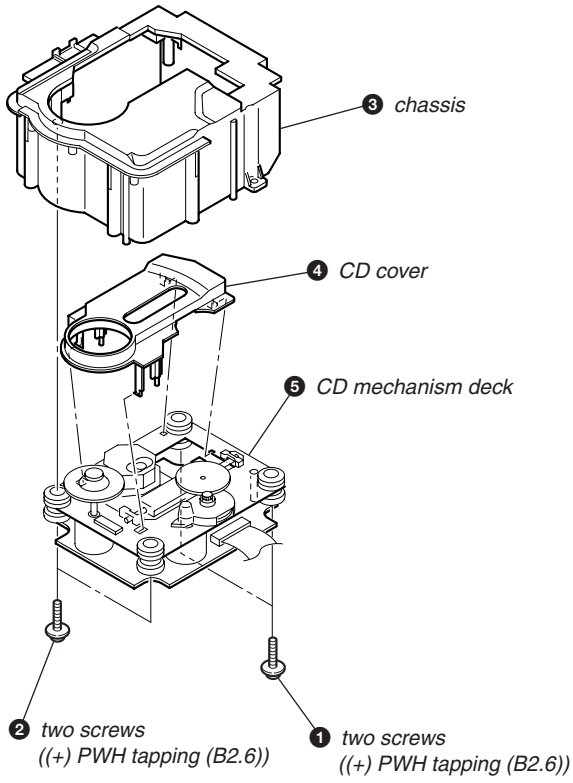
1) Set the FM wire antenna as shown in the figure.



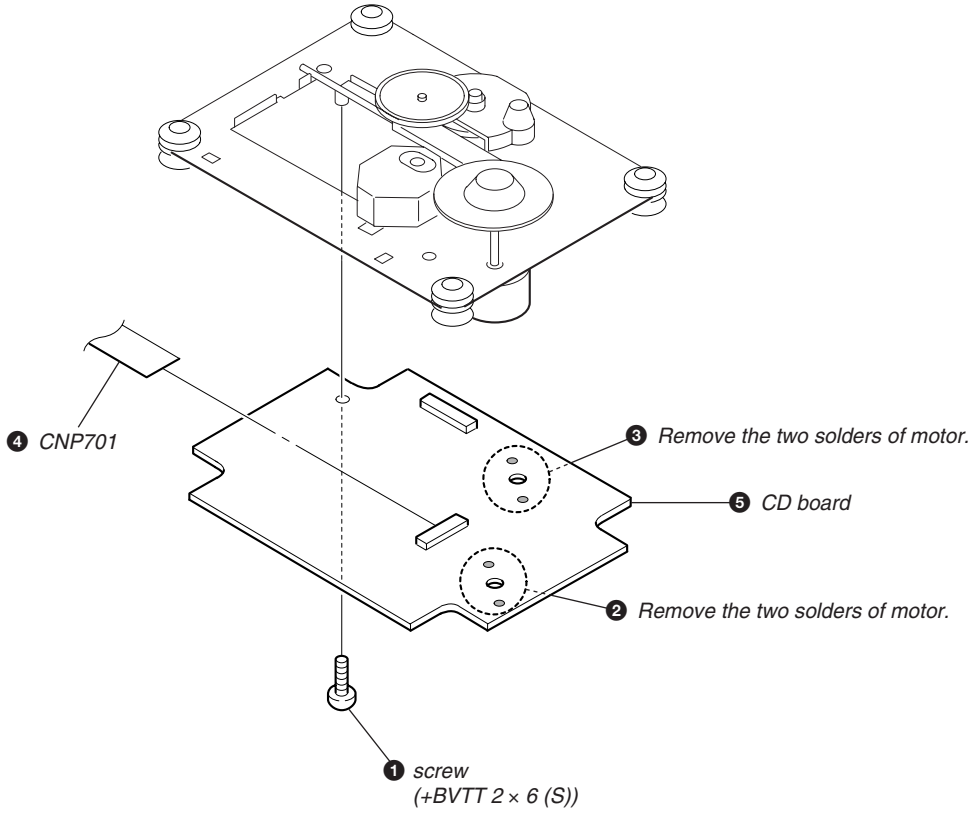
3-5. MAIN BOARD, CD BLOCK ASSY



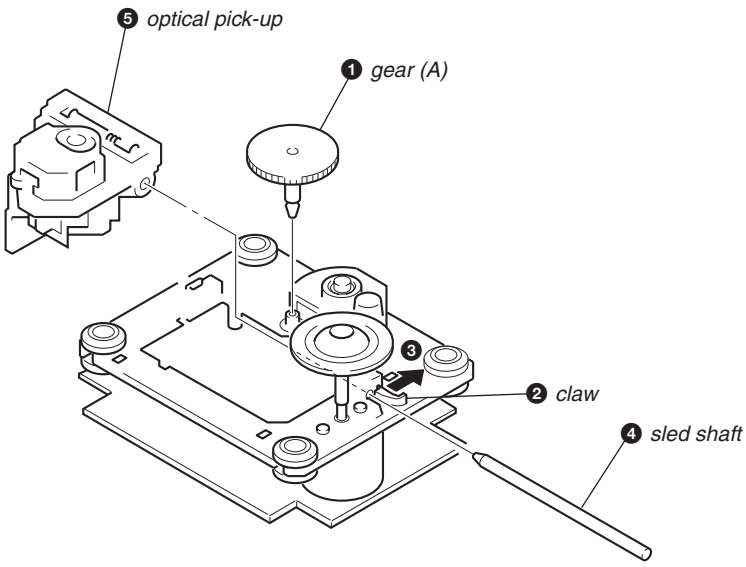
3-6. CD MECHANISM DECK



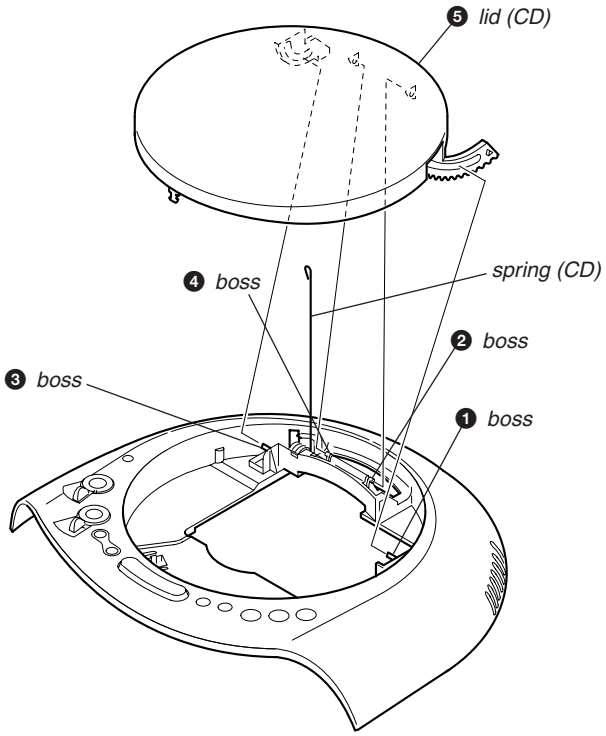
3-7. CD BOARD



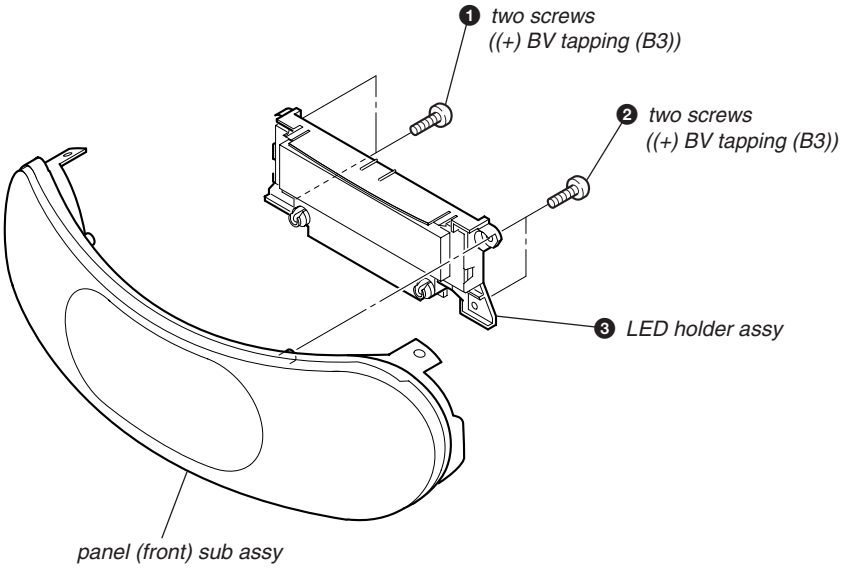
3-8. OPTICAL PICK-UP



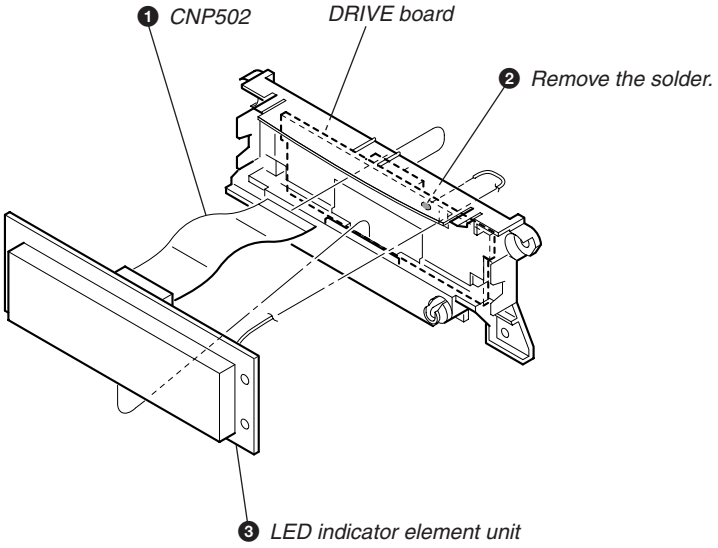
3-9. LID (CD)



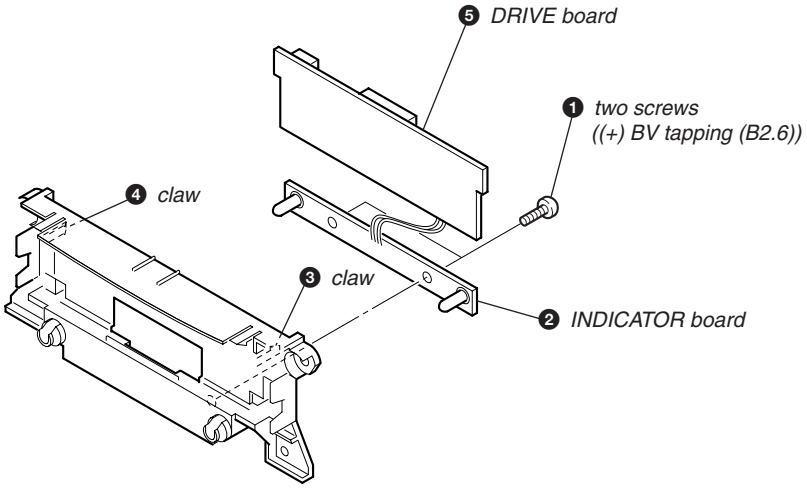
3-10. LED HOLDER ASSY



3-11. LED INDICATOR ELEMENT UNIT



3-12. INDICATOR BOARD, DRIVE BOARD

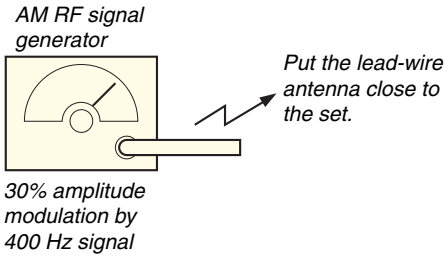


SECTION 4
ELECTRICAL ADJUSTMENTS

TUNER SECTION **0 dB = 1 μV**

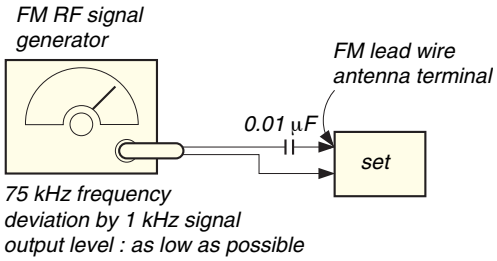
- **AM Section**

Setting:
BAND switch: AM
VOLUME control: MIN

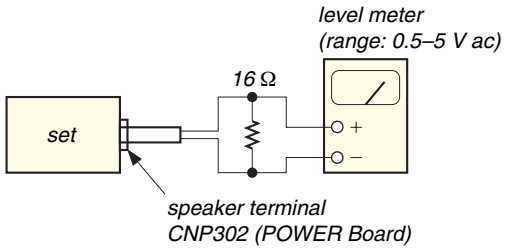


- **FM Section**

Setting:
BAND switch: FM
VOLUME control: MIN


FM RF signal generator
FM lead wire antenna terminal
0.01 μF
set
75 kHz frequency deviation by 1 kHz signal output level : as low as possible

- **Connecting Level Meter (FM and AM)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T1
455 kHz

AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L4	CT4
520 kHz	1,750 kHz

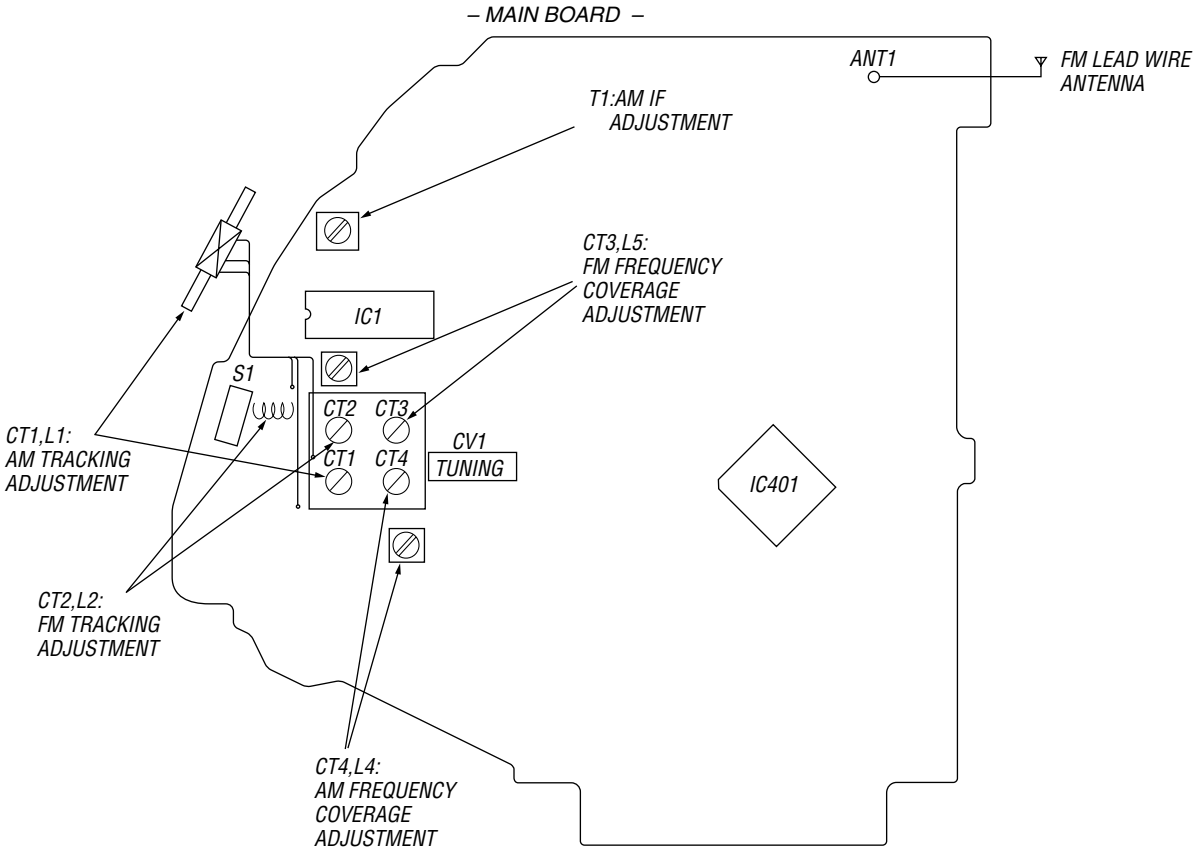
AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	CT1
600 kHz	1,400 kHz

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L5	CT3
86.5 MHz	109.5 MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L2	CT2
86.5 MHz	109.5 MHz

Adjustment Location: See page 15.

Adjustment Location:



CD SECTION

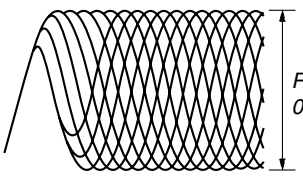
CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

FOCUS BIAS CHECK

1. Connect the oscilloscope between IC701 pin ④ and pin ⑪ (or TP (RF) and TP (VREF)).
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ► II (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

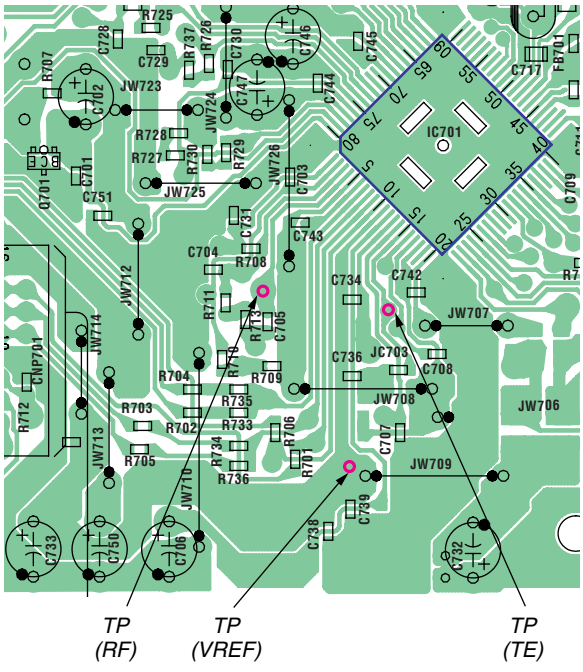
VOLT/DIV : 50 mV (10 : 1 probe in use)
TIME/DIV : 500 nsec



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Test Point:

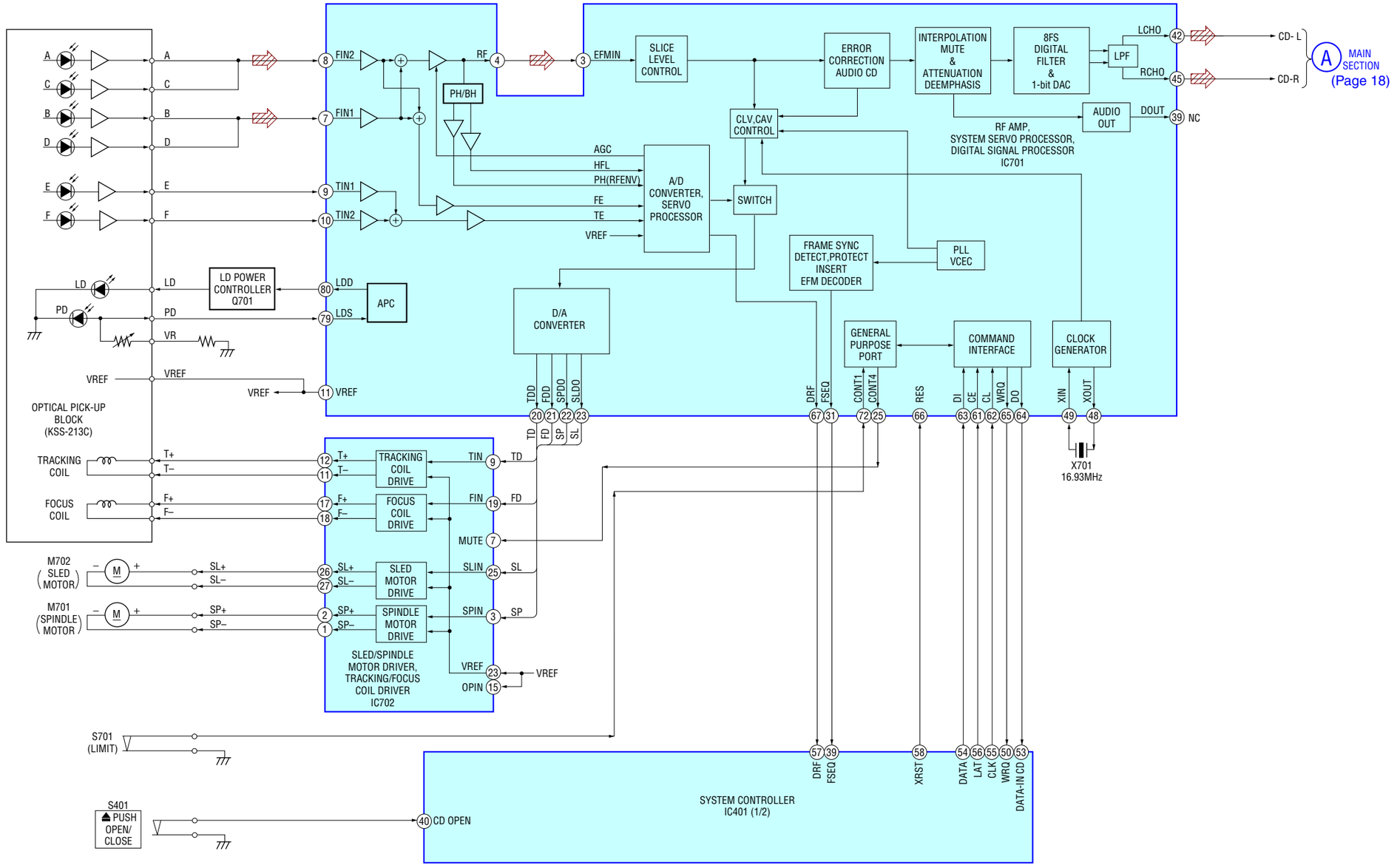
– CD board (conductor side) –



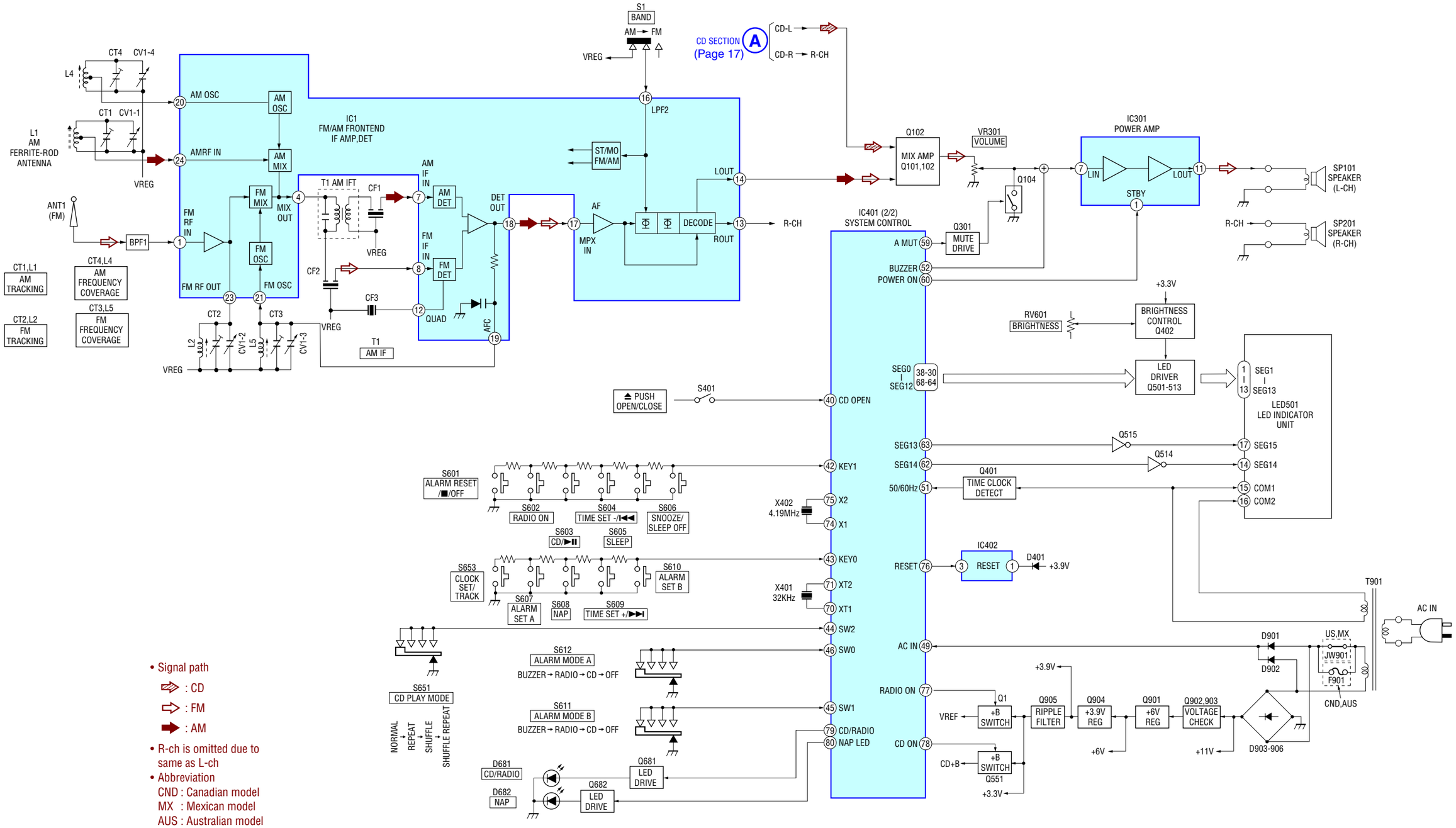
MEMO

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM — CD SECTION —



5-2. BLOCK DIAGRAM — MAIN SECTION —



- Signal path
  - ⇛ : CD
  - ⇨ : FM
  - ➡ : AM
- R-ch is omitted due to same as L-ch
- Abbreviation
  - CND : Canadian model
  - MX : Mexican model
  - AUS : Australian model

• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

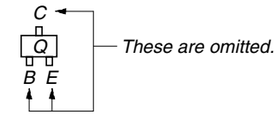
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

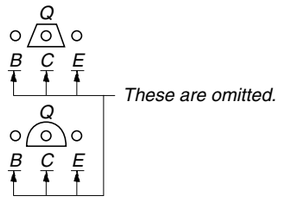
- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  – CD Board –
  no mark : CD PLAY
  – MAIN Board –
  no mark : FM
  ( ) : AM
  < > : CD
  – Other Boards –
  no mark : FM
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇨ : CD PLAY
- Abbreviation
  CND : Canadian model.
  MX : Mexican model.
  AUS : Australian model.

for printed wiring boards:

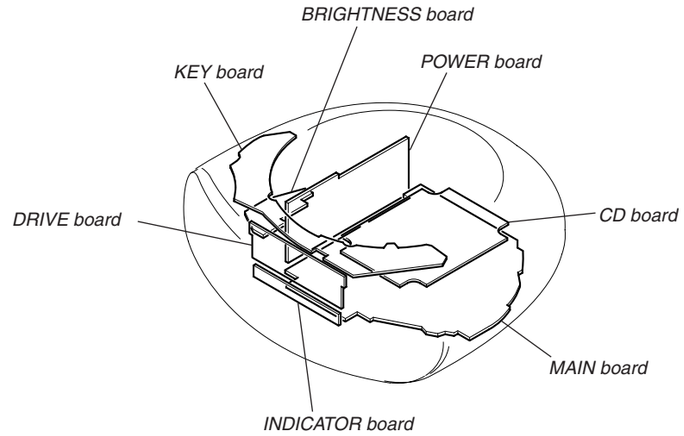
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ⊡← : indicates side identified with part number.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.





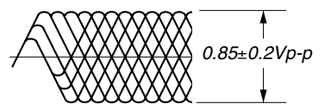
5-3. CIRCUIT BOARDS LOCATION



• Waveforms

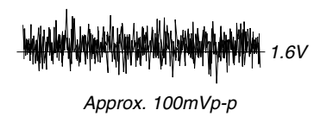
— CD BOARD — (Mode: PLAY)

① IC701 ④ (RF)



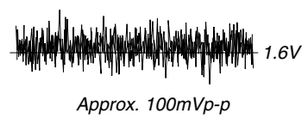
500mV/div, 0.5μsec/div

③ IC701 ⑮ (TE)



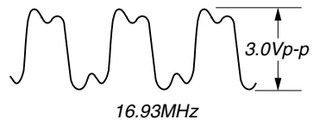
100mV/div, 5msec/div

② IC701 ⑬ (FE)



100mV/div, 5msec/div

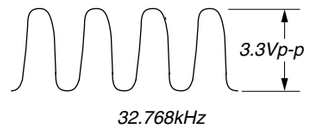
④ IC701 ㊽ (XOUT)



1V/div, 0.05μsec/div

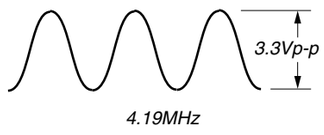
— MAIN BOARD —

① IC401 ㉛ (XT2)



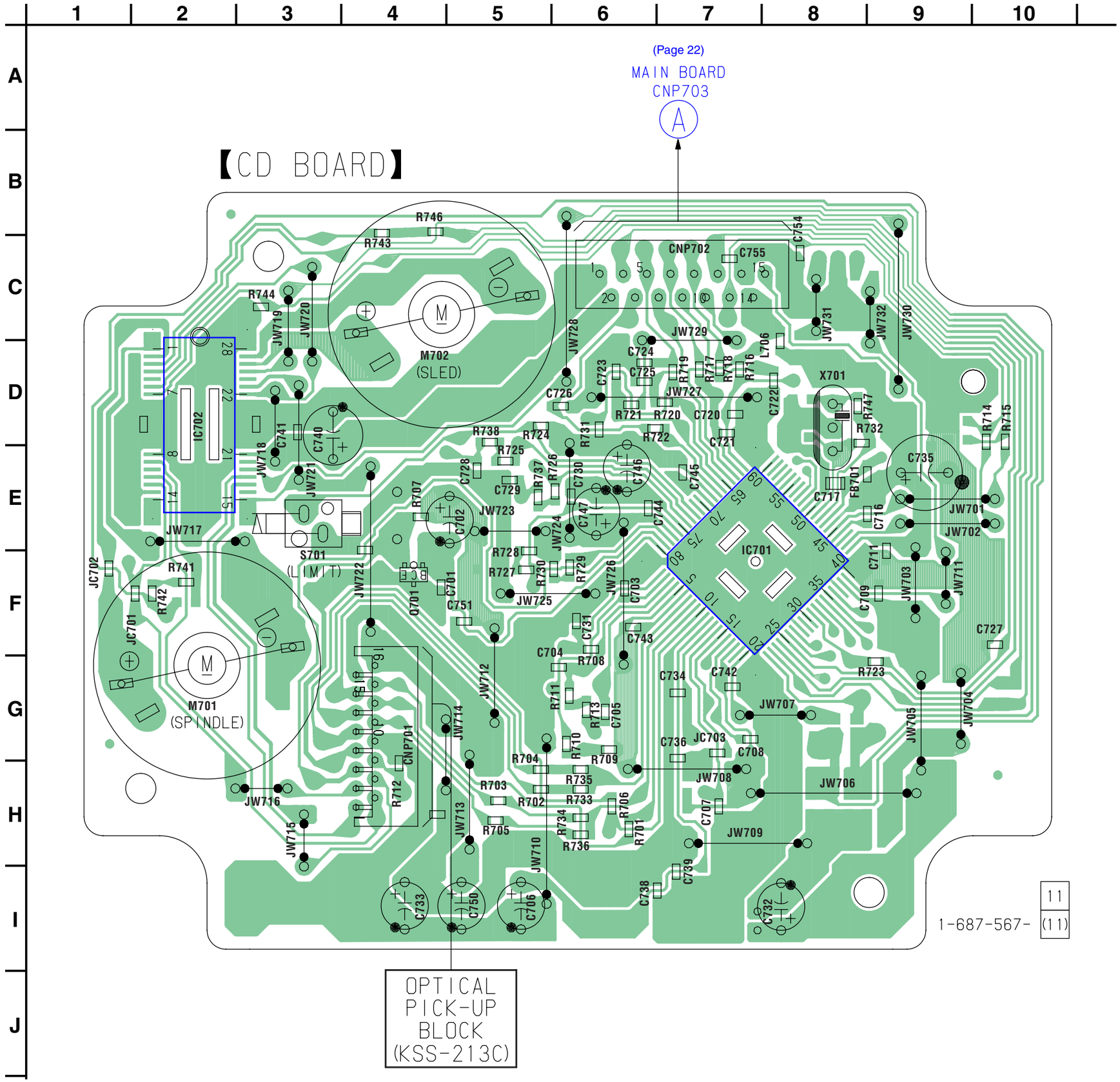
1V/div, 10μsec/div

② IC401 ㉕ (X2)

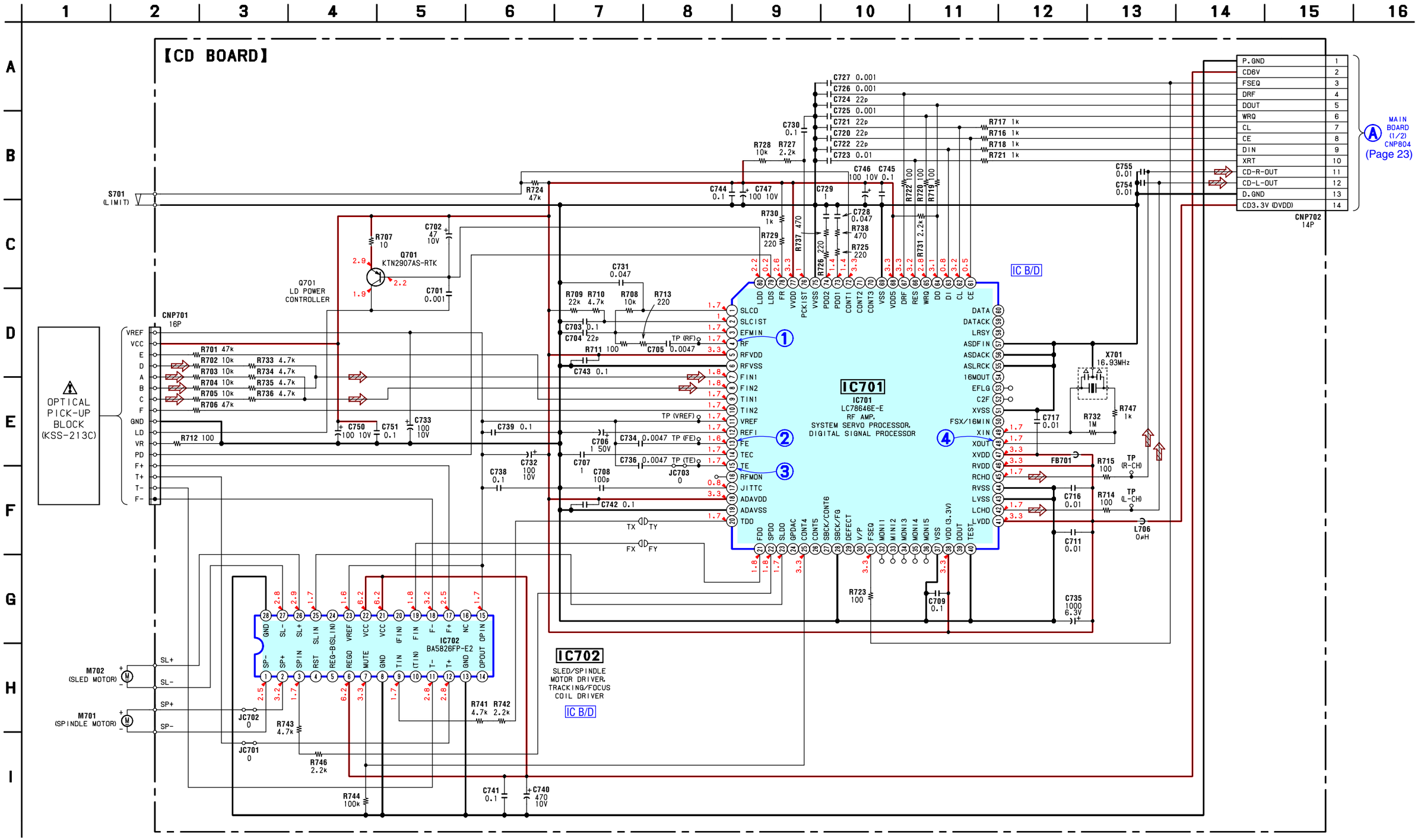


1V/div, 0.1μsec/div

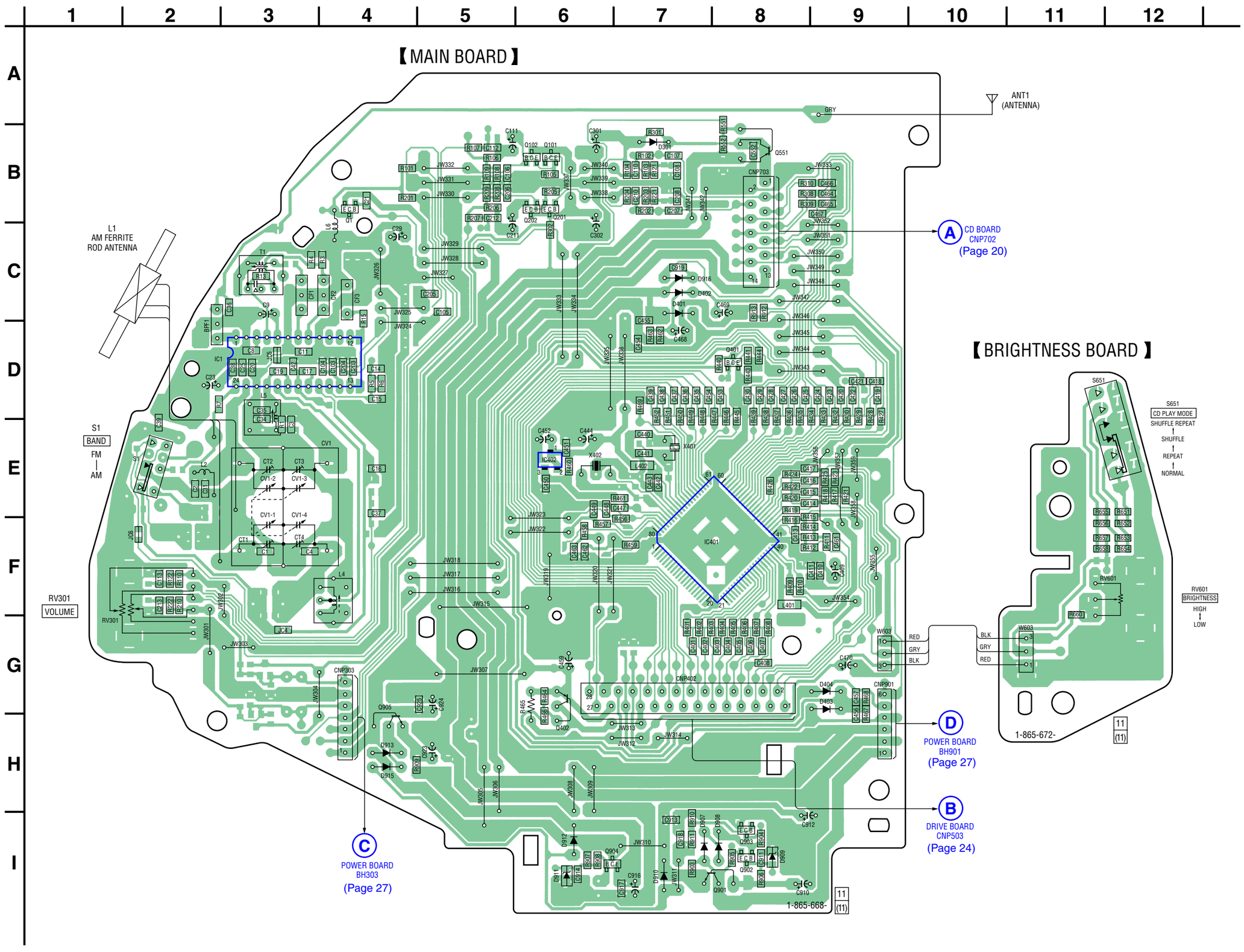
5-4. PRINTED WIRING BOARD — CD SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder.



5-5. SCHEMATIC DIAGRAM — CD SECTION — • Refer to page 19 for Waveforms. • Refer to page 29 for IC Block Diagrams.



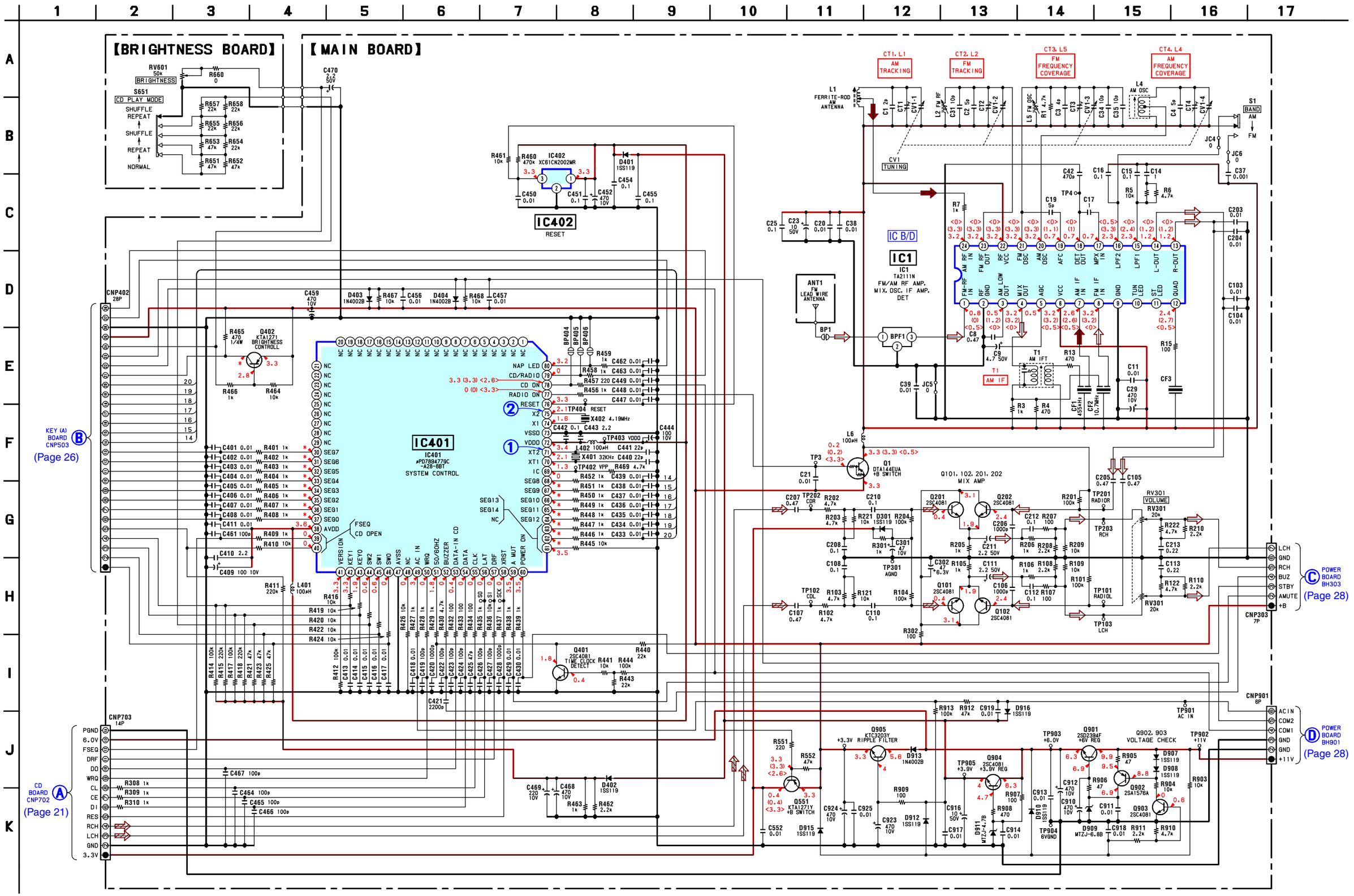
5-6. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 19 for Circuit Boards Location. **: Uses unleaded solder.**



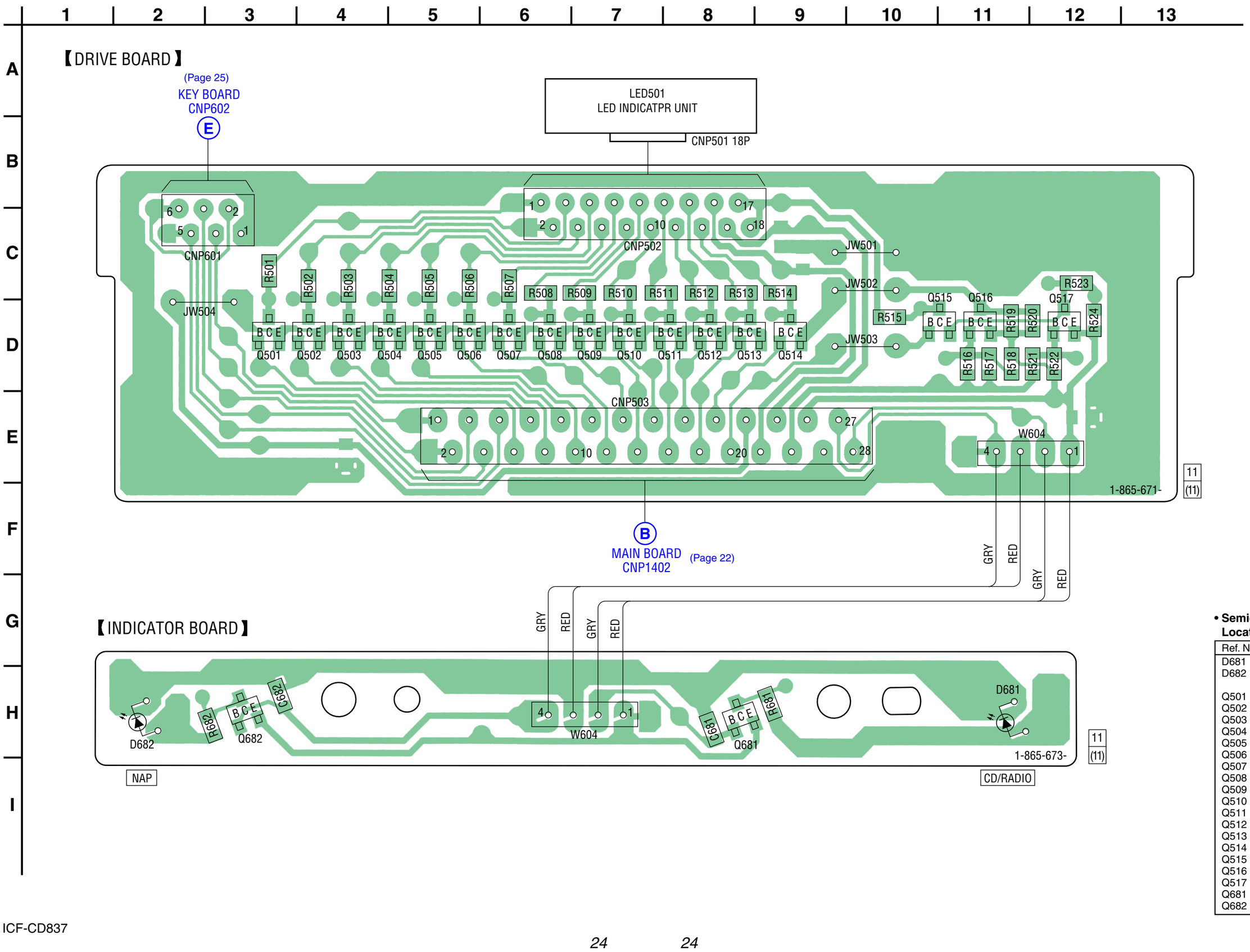
- **Semiconductor Location**

Ref. No.	Location
D301	B-7
D401	C-7
D402	C-7
D403	G-9
D404	G-9
D907	I-7
D908	I-8
D909	I-8
D910	I-7
D911	I-6
D912	I-6
D913	H-4
D915	H-4
D916	C-7
IC1	D-3
IC401	F-8
IC402	E-6
Q1	B-4
Q101	B-6
Q102	B-6
Q201	B-6
Q202	B-6
Q401	D-8
Q402	H-6
Q551	B-8
Q901	I-8
Q902	I-8
Q903	I-8
Q904	I-6
Q905	G-4

5-7. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 19 for Waveforms. • Refer to page 31 for IC Pin Description of IC401. • Refer to page 30 for IC Block Diagrams.



5-8. PRINTED WIRING BOARDS — DISPLAY SECTION — **• Refer to page 19 for Circuit Boards Location.** **: Uses unleaded solder.**

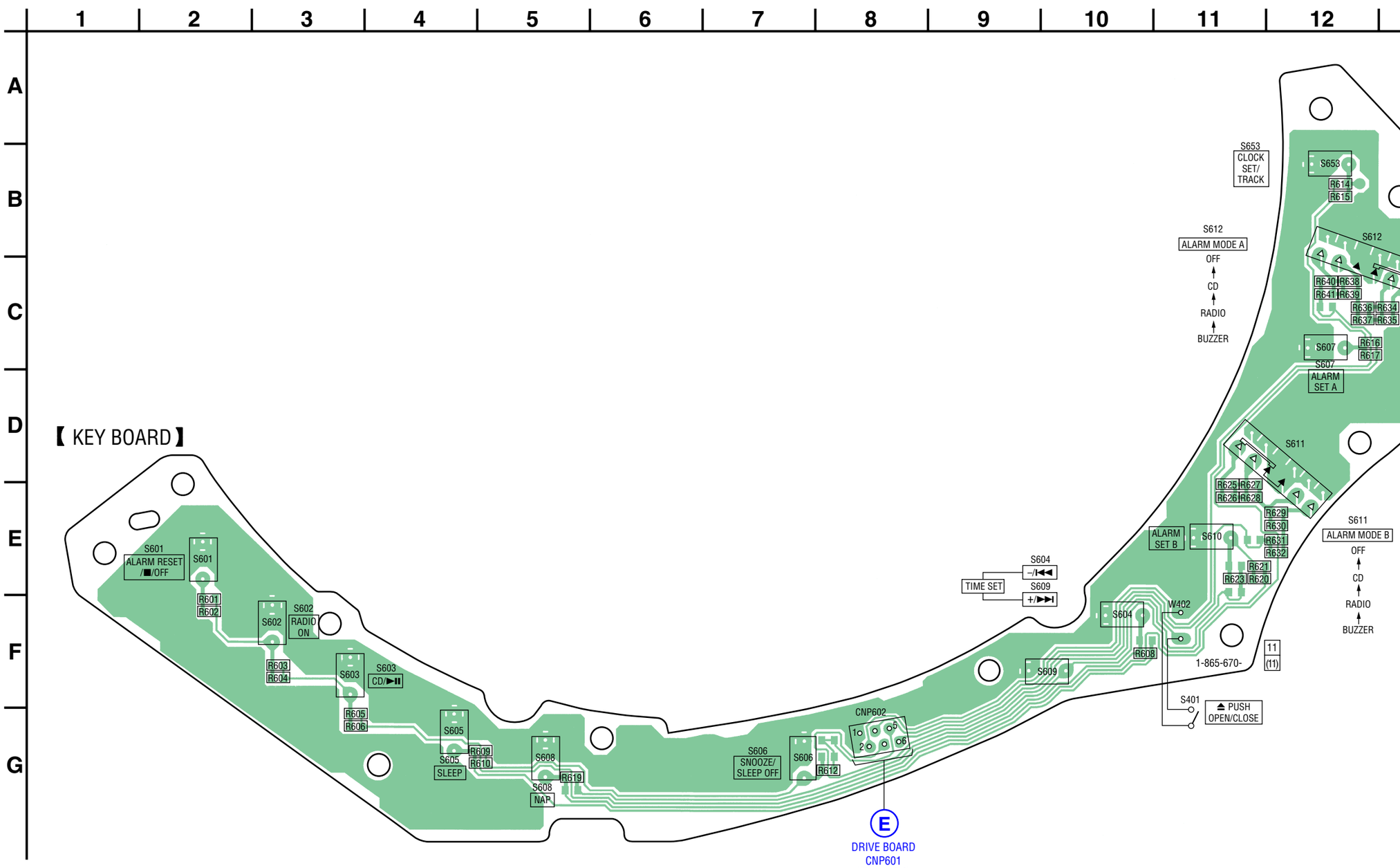


• Semiconductor Location

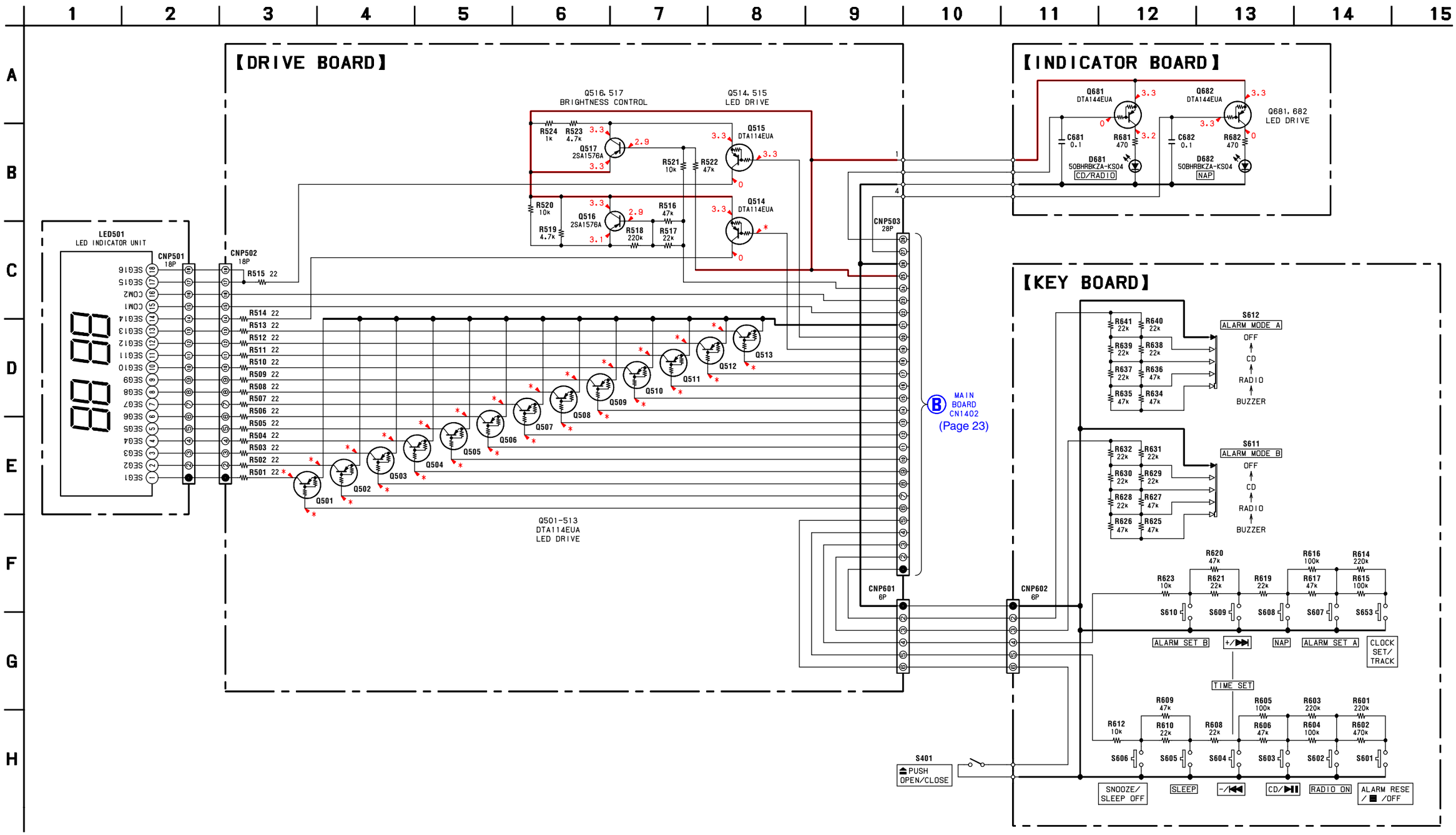
Ref. No.	Location
D681	H-11
D682	H-2
Q501	D-3
Q502	D-4
Q503	D-4
Q504	D-5
Q505	D-5
Q506	D-5
Q507	D-6
Q508	D-6
Q509	D-7
Q510	D-7
Q511	D-8
Q512	D-8
Q513	D-8
Q514	D-9
Q515	D-11
Q516	D-11
Q517	D-12
Q681	H-8
Q682	H-3

5-9. PRINTED WIRING BOARD — KEY SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder.

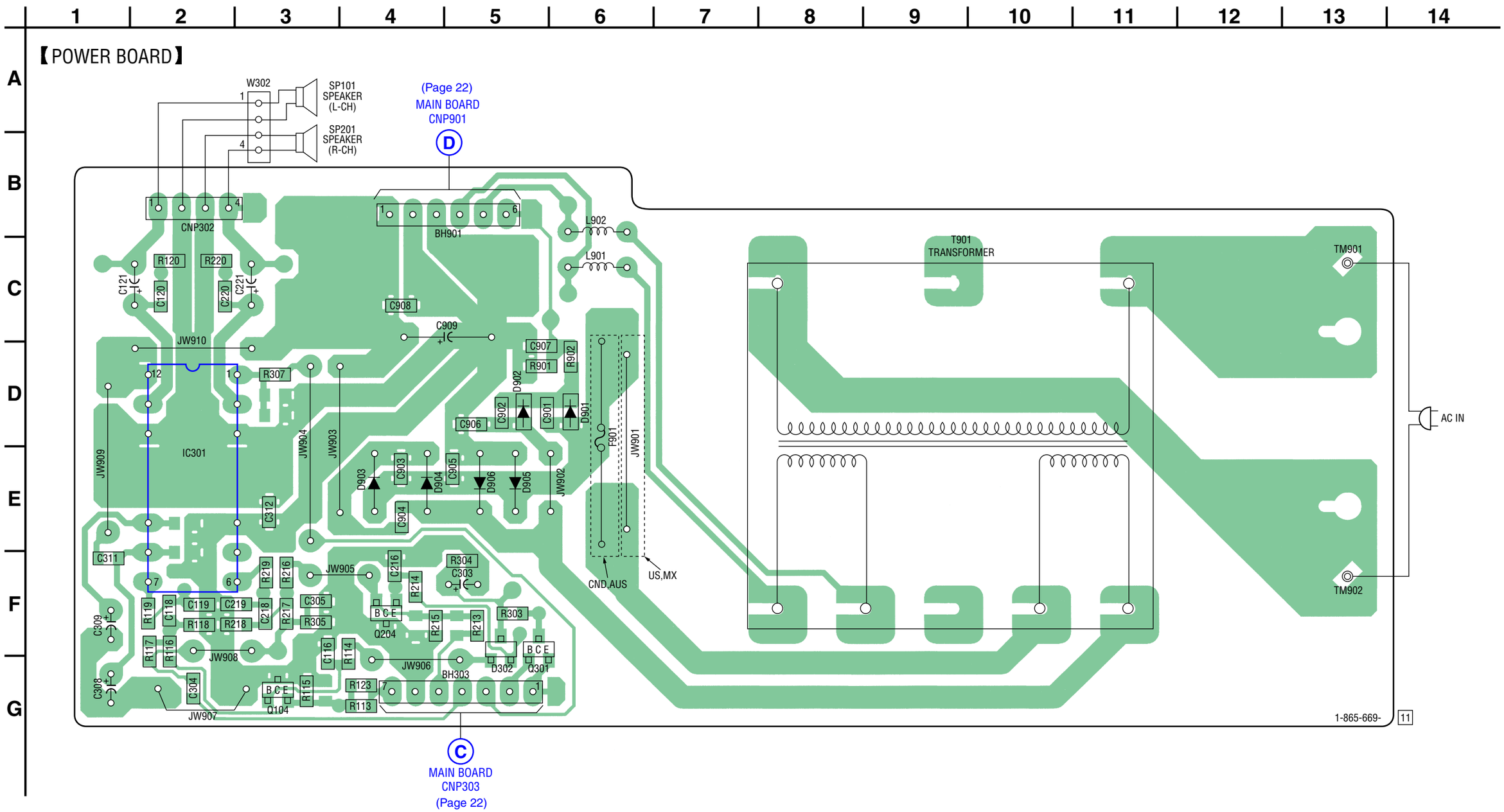
【 KEY BOARD 】



5-10. SCHEMATIC DIAGRAM — DISPLAY SECTION —



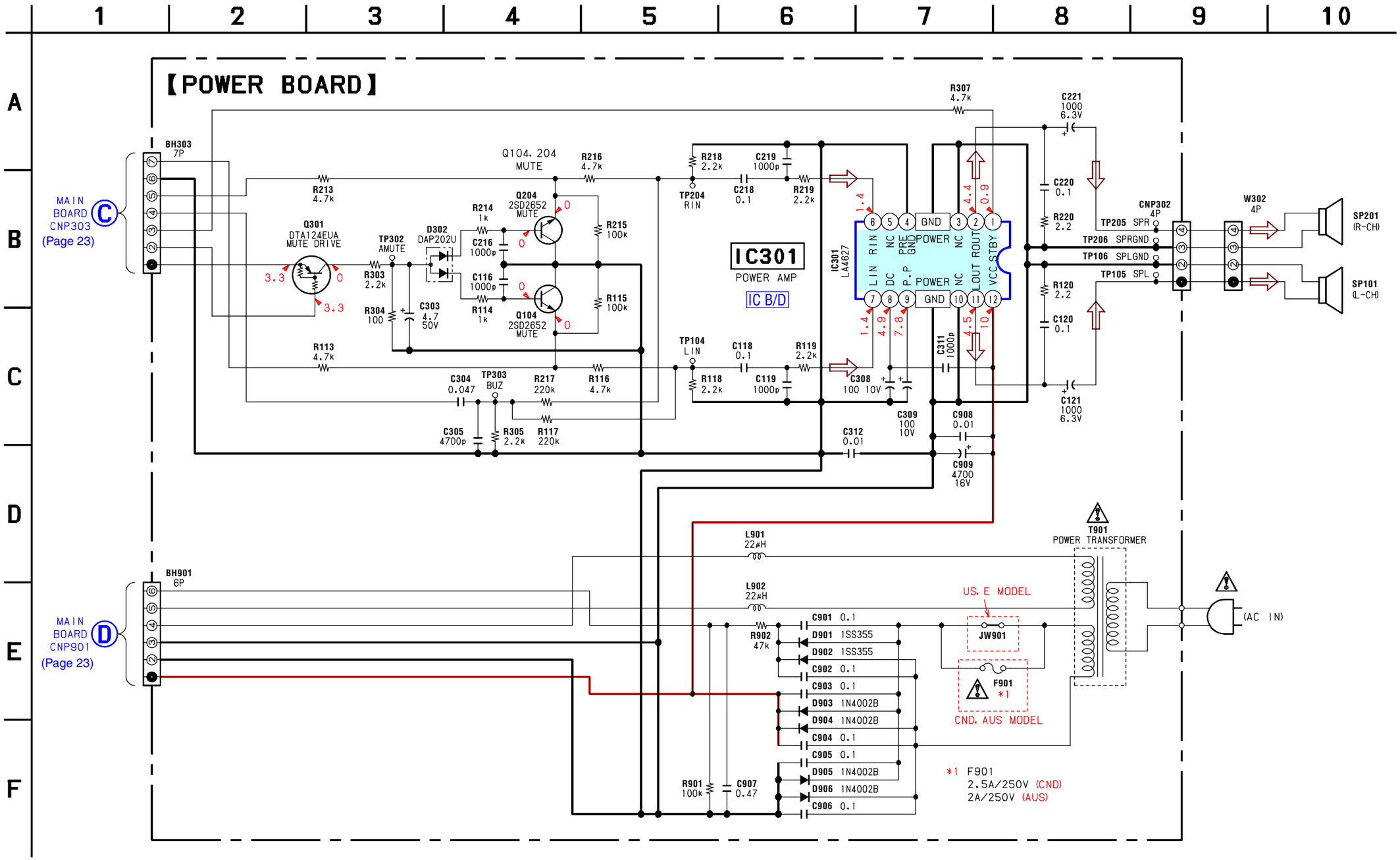
5-11. PRINTED WIRING BOARD — POWER SUPPLY SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

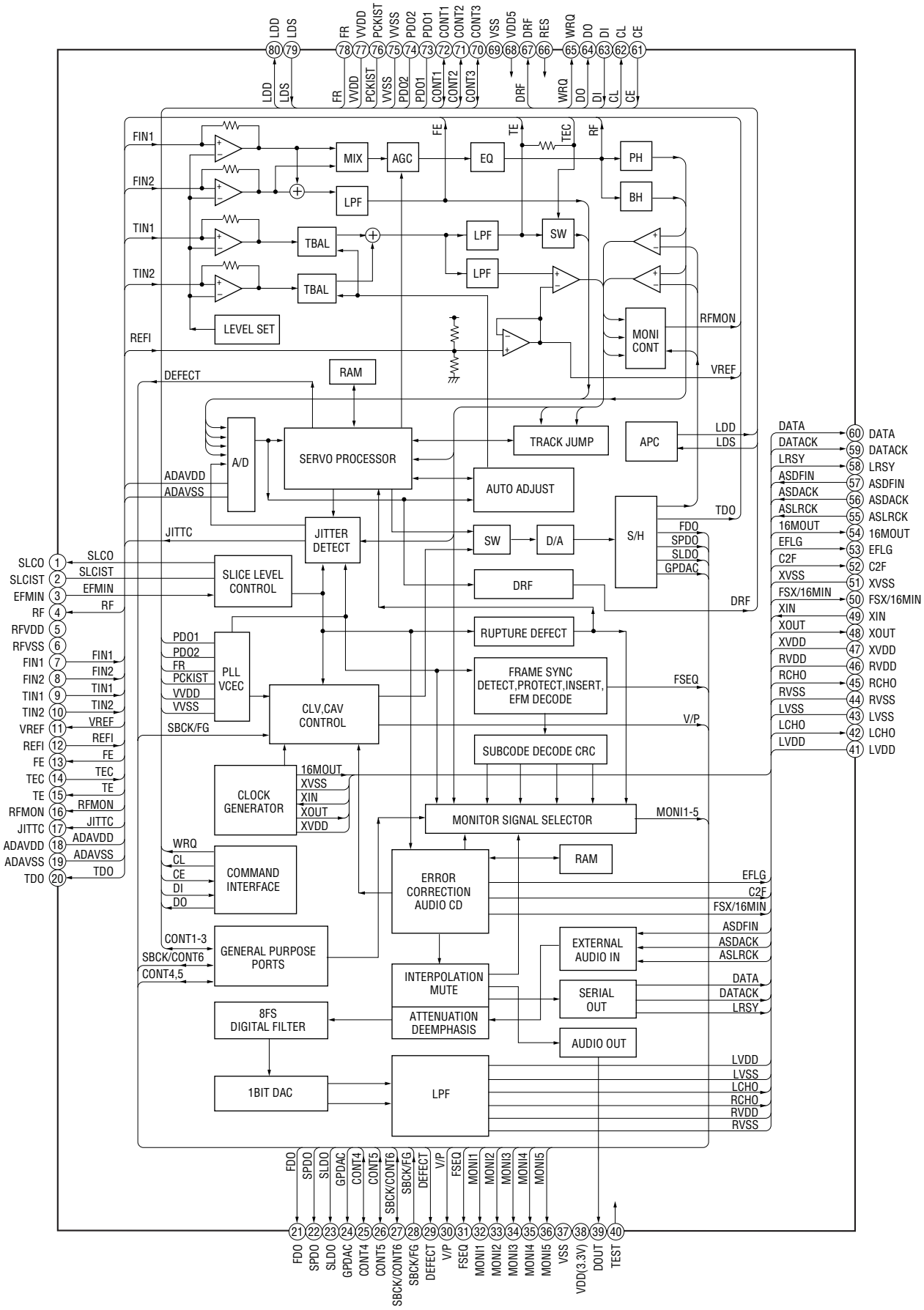
Ref. No.	Location
D302	G-5
D901	D-6
D902	D-5
D903	E-4
D904	E-4
D905	E-5
D906	E-5
IC301	E-2
Q104	G-3
Q204	F-4
Q301	G-5

5-12. SCHEMATIC DIAGRAM — POWER SUPPLY SECTION —

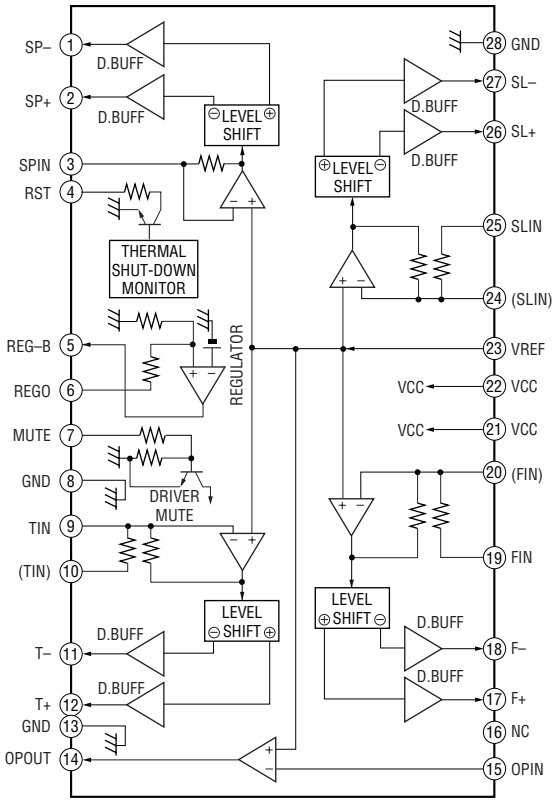


• IC Block Diagrams

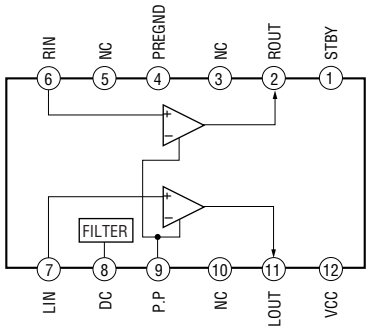
IC701 LC78646E-US-E (CD Board)



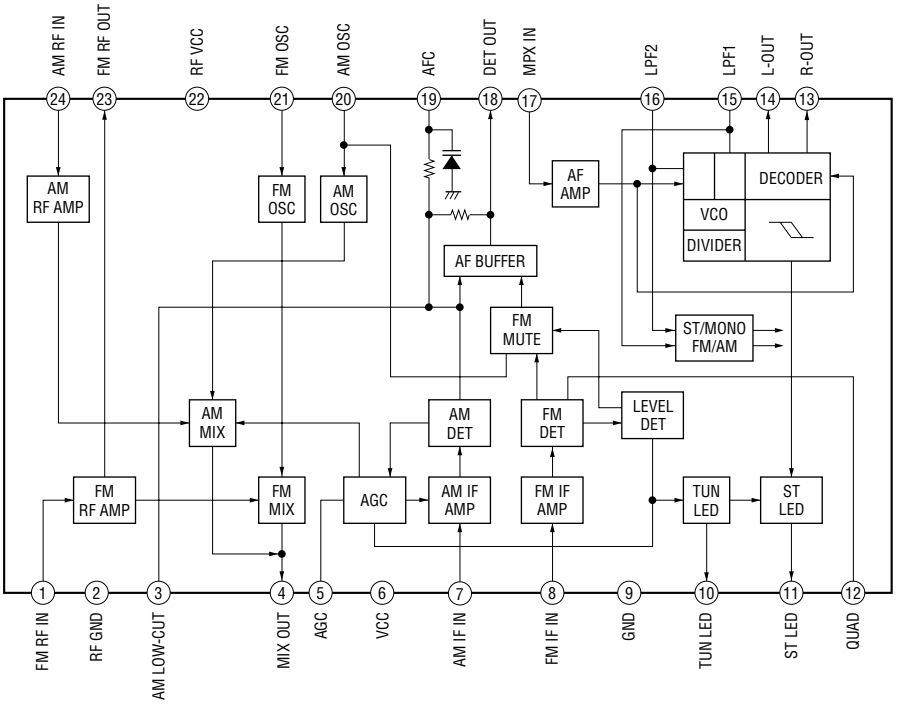
IC702 BA5826FP-E2 (CD Board)



IC301 LA4627 (POWER Board)



IC1 TA2111N (MAIN Board)



• IC Pin Description

IC401 uPD789477GC-A28-8BT (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1 to 29	NC	—	Note used (Open)
30 to 37	SEG7 to SEG0	O	LED segment driver signal output
38	AVDD	—	Power supply pin (+3.3 V)
39	FSEQ	I	CD frame sync input
40	CD OPEN	I	CD open detection signal input
41	VERSION	I	Distination select signal input
42, 43	KEY1, KEY0	I	Key data input
44 to 46	SW2 to SW0	I	Switch data input
47	AVSS	—	Ground
48	NC	—	Not used (Pull down)
49	AC IN	I	AC power failure detection signal input
50	WRQ	I	CD write request data input
51	50/60HZ	I	Time clock sync signal input
52	BUZZER	O	Beep sound output
53	DATA-IN CD	I	CD serial data input
54	DATA	I/O	CD serial data input/ouput
55	CLK	O	CD serial clock output
56	LAT	O	CD latch signal output
57	DRF	I	CD DRF signal input
58	XRST	O	CD reset signal output
59	A MUT	O	Audio mute control signal output
60	POWER ON	O	Power AMP standby control signal output
61	NC	O	Not used (Pull down)
62 to 68	SEG14 to SEG8	O	LED segment driver signal output
69	IC	I	Not used (Pull down)
70	XT1	—	Sub system clock (32.768 kHz)
71	XT2	—	Sub system clock (32.768 kHz)
72	VDD0	—	Power supply pin (+3.3 V)
73	VSS0	—	Ground
74	X1	—	Main system clock (4.19 MHz)
75	X2	—	Main system clock (4.19 MHz)
76	RESET	—	System reset signal input
77	RADIO ON	O	Radio power supply control signal output
78	CD ON	O	CD power supply control signal output
79	CD/RADIO	O	CD/RADIO indicator drive signal output
80	NAP LED	O	NAP indicator drive signal output

SECTION 6
EXPLODED VIEWS

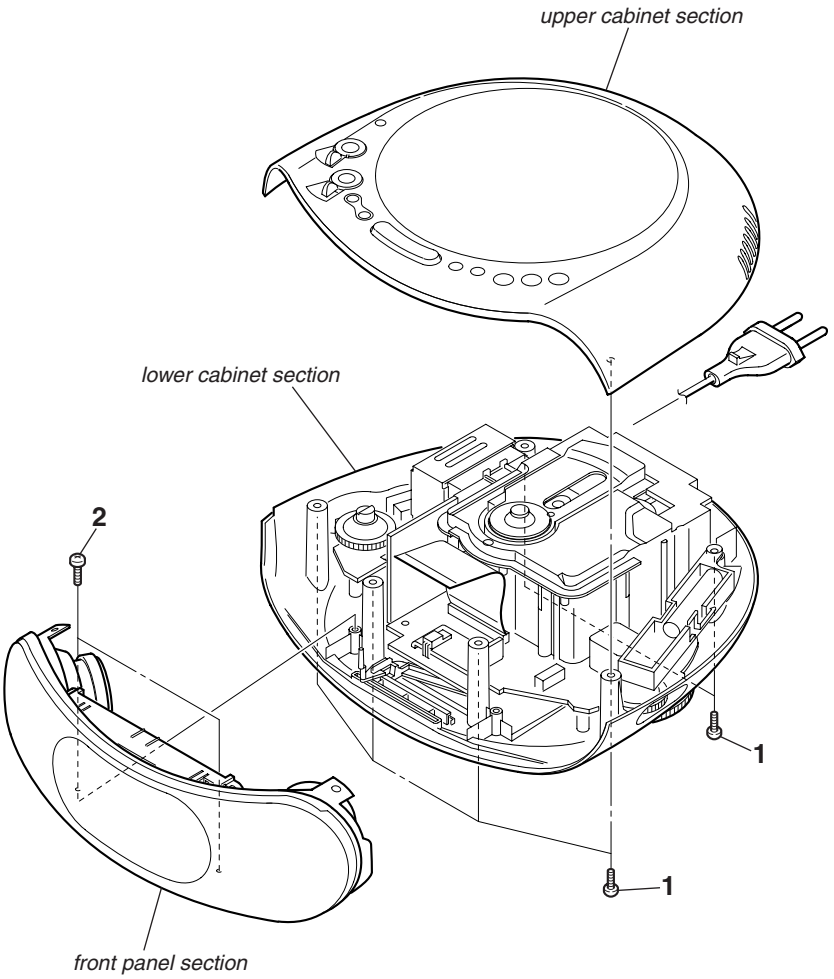
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  CND : Canadian model
  MX : Mexican model
  AUS : Australian model

- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- (Print color: PINK): Color of printer graphic of LID (CD)
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

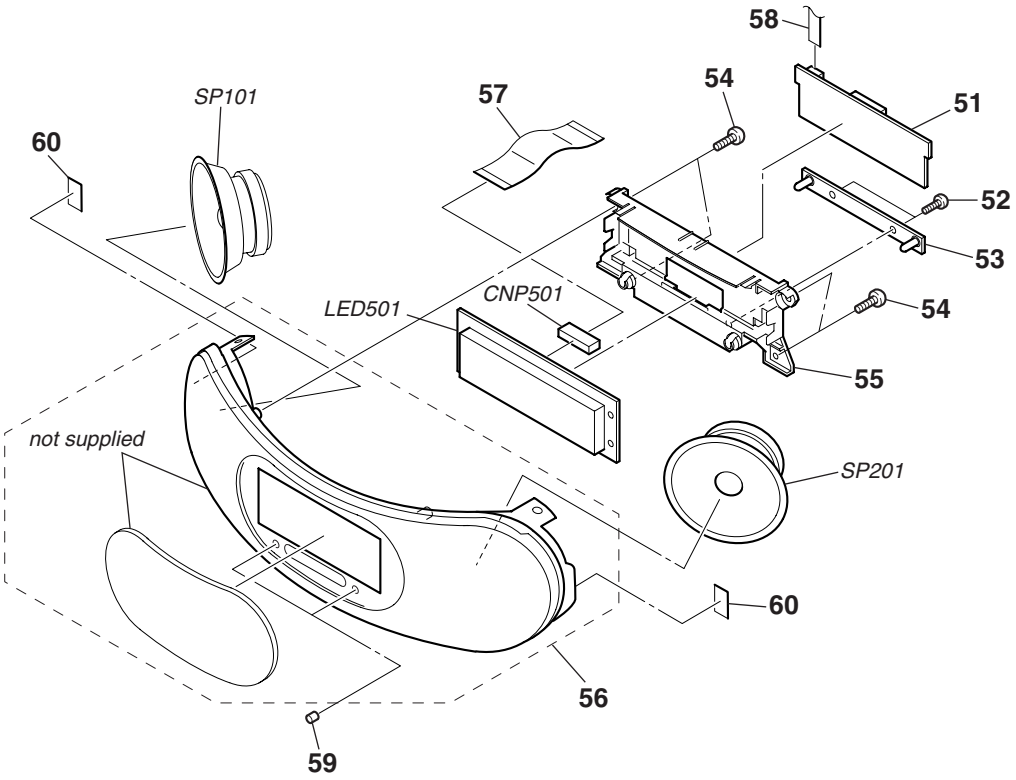
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-254-145-01	SCREW (B3), (+) BV TAPPING		2	3-254-143-01	SCREW (B3), (+) BV TAPPING	

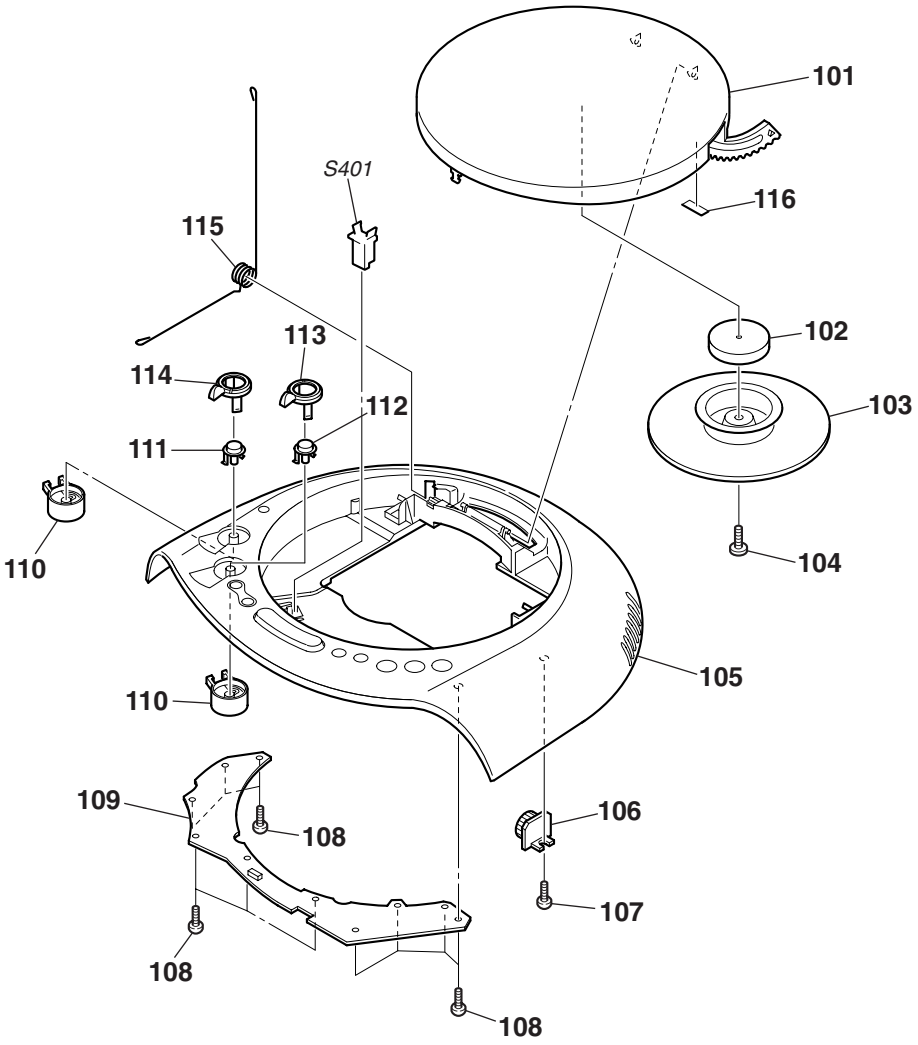
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	A-1094-529-A	DRIVE BOARD, COMPLETE	
52	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
53	A-1094-532-A	INDICATOR BOARD, COMPLETE	
54	3-254-143-01	SCREW (B3), (+) BV TAPPING	
55	2-541-554-01	HOLDER (LED)	
56	X-2048-698-1	PANEL (FRONT) SUB ASSY (GRAY)...(WHITE) (Print color:BLUE) (US,CND,MX)	
56	X-2048-944-1	PANEL (FRONT) SUB ASSY (GRAY)...(WHITE) (Print color:BLUE) (AUS)	
56	X-2055-495-1	PANEL (FRONT) SUB ASSY (BLACK)...(BLACK)	
56	X-2067-858-1	PANEL (FRONT) SUB ASSY (SILVER)...(WHITE) (Print color:PINK) (US)	

Ref. No.	Part No.	Description	Remark
57	1-830-248-11	CABLE, FLEXIBLE FLAT (18 CORE)	
58	1-830-247-11	CABLE, FLEXIBLE FLAT (6 CORE)	
59	3-254-944-01	INDICATOR	
60	3-831-441-11	CUSHION, CABINET UPPER 10X7X0.5	
CNP501	1-779-286-11	CONNECTOR, FFC (LIF(NON-ZIF)) 18P	
LED501	1-479-172-11	ELEMENT UNIT, LED INDICATOR	
SP101	1-825-274-11	SPEAKER (6.6cm) (L-CH)	
SP201	1-825-274-11	SPEAKER (6.6cm) (R-CH)	

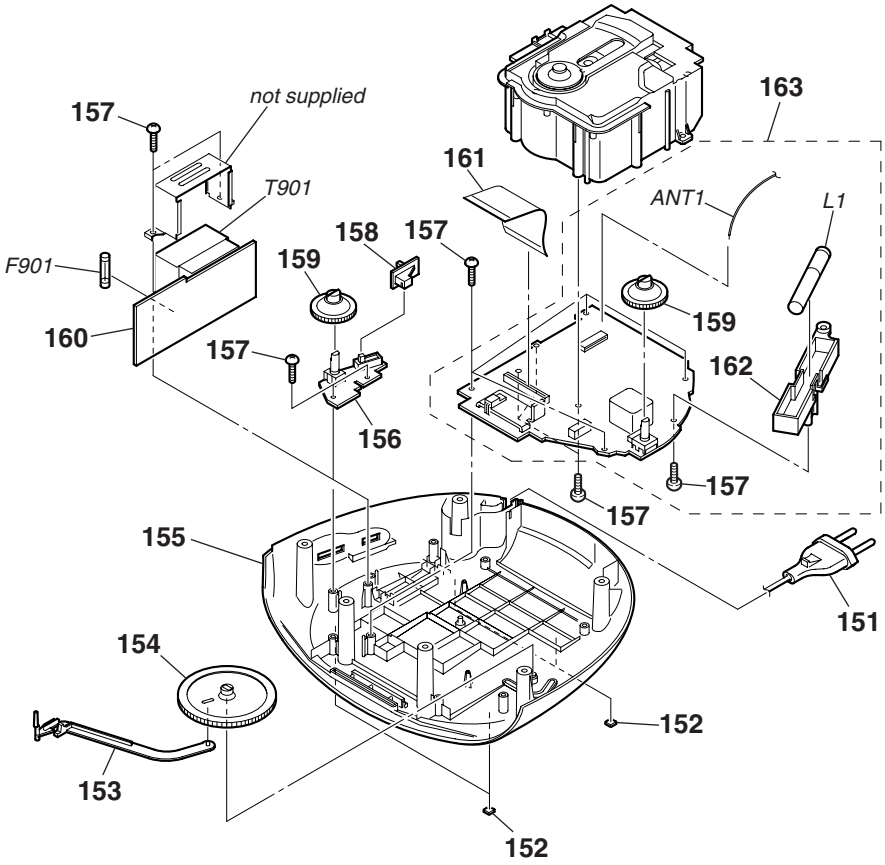
6-3. UPPER CABINET SECTION



Ref. No.	Part No.	Description	Remark
101	2-541-550-01	LID (CD) (WHITE)...(WHITE) (Print color:BLUE)	
101	2-541-550-11	LID (CD) (BLACK)...(BLACK)	
101	2-541-550-51	LID (CD) (WHITE)...(WHITE) (Print color:PINK)	
102	1-452-899-11	MAGNET	
103	3-019-395-01	PLATE, CHUCKING	
104	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
105	X-2048-697-1	CABINET (UPPER) SUB ASSY (WHITE)...(WHITE) (Print color:BLUE)	(US,CND,MX)
105	X-2048-890-1	CABINET (UPPER) SUB ASSY (BLACK)...(BLACK)	
105	X-2048-943-1	CABINET (UPPER) SUB ASSY (WHITE)...(WHITE) (Print color:BLUE)	(AUS)
105	X-2067-857-1	CABINET (UPPER) SUB ASSY (WHITE)...(WHITE) (Print color:PINK)	(US)
106	3-047-468-21	DAMPER	
107	3-254-143-01	SCREW (B3), (+) BV TAPPING	
108	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
109	A-1094-510-A	KEY BOARD, COMPLETE	
110	2-541-547-01	ADAPTOR	

Ref. No.	Part No.	Description	Remark
111	2-541-541-01	BUTTON (ALARM A) (BLUE)...(WHITE/BLACK)	
111	2-541-541-11	BUTTON (ALARM A) (PINK)...(WHITE)	
112	2-541-542-01	BUTTON (ALARM B) (BLUE)...(WHITE/BLACK)	
112	2-541-542-11	BUTTON (ALARM B) (PINK)...(WHITE)	
113	2-541-546-01	KNOB (ALARM B) (WHITE)...(WHITE)	(Print color:BLUE)
113	2-541-546-11	KNOB (ALARM B) (BLACK)...(BLACK)	
113	2-541-546-31	KNOB (ALARM B) (WHITE)...(WHITE)	(Print color:PINK)
114	2-541-545-01	KNOB (ALARM A) (WHITE)...(WHITE)	(Print color:BLUE)
114	2-541-545-11	KNOB (ALARM A) (BLACK)...(BLACK)	
114	2-541-545-31	KNOB (ALARM A) (WHITE)...(WHITE)	(Print color:PINK)
115	2-541-560-01	SPRING (CD)	
116	2-596-506-01	CUSHION (C) (WHITE)...(WHITE)	
116	2-596-506-11	CUSHION (C) (BLACK)...(BLACK)	
S401	1-692-960-11	SWITCH, PUSH (1 KEY)	(⏏ PUSH OPEN/CLOSE)

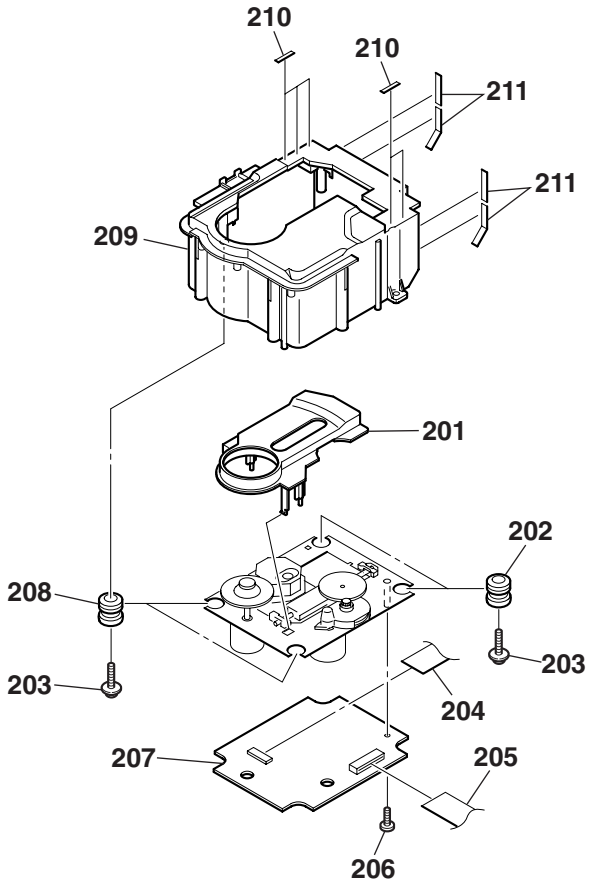
6-4. LOWER CABINET SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠151	1-757-636-11	CORD, POWER (US,CND)	
⚠151	1-769-339-82	CORD, POWER (MX)	
⚠151	1-790-431-21	CORD, POWER (AUS)	
152	3-368-852-01	FOOT	
153	2-541-552-01	POINTER	
154	2-541-549-01	KNOB (TUNE) (GRAY)...(WHITE/BLACK)	
154	2-541-549-11	KNOB (TUNE) (WHITE)...(WHITE)	
155	2-541-537-01	CABINET (LOWER) (WHITE)...(WHITE) (Print color:BLUE) (US,MX)	
155	2-541-537-11	CABINET (LOWER) (WHITE)...(WHITE) (Print color:BLUE) (CND)	
155	2-541-537-21	CABINET (LOWER) (BLACK)...(BLACK) (US)	
155	2-541-537-31	CABINET (LOWER) (BLACK)...(BLACK) (CND)	
155	2-541-537-41	CABINET (LOWER) (WHITE)...(WHITE) (Print color:BLUE) (AUS)	
155	2-541-537-81	CABINET (LOWER) (WHITE)...(WHITE) (Print color:PINK) (US)	
156	A-1094-521-A	BRIGHTNESS BOARD, COMPLETE	
157	3-254-143-01	SCREW (B3), (+) BV TAPPING	
158	2-541-548-01	KNOB (CD PLAY MODE) (WHITE)...(WHITE) (Print color:BLUE)	
158	2-541-548-11	KNOB (CD PLAY MODE) (BLACK)...(BLACK)	
158	2-541-548-31	KNOB (CD PLAY MODE) (WHITE)...(WHITE) (Print color:PINK)	
159	3-382-175-41	KNOB (V) (GRAY)...(WHITE/BLACK)	
159	3-382-175-71	KNOB (V) (WHITE)...(WHITE)	
160	A-1094-524-A	POWER BOARD, COMPLETE (US,MX)	
160	A-1097-513-A	POWER BOARD, COMPLETE (AUS)	
160	A-1106-404-A	POWER BOARD, COMPLETE (CND)	
161	1-830-246-11	CABLE, FLEXIBLE FLAT (28 CORE)	
162	2-541-553-01	HOLDER (ANTENNA)	
163	A-1094-517-A	MAIN BOARD, COMPLETE (Print color:BLUE)	
163	A-1141-206-A	MAIN BOARD, COMPLETE (Print color:PINK)	
ANT1	1-754-372-11	ANTENNA, FM WIRE	
⚠F901	1-533-450-12	FUSE, GLASS TUBE (DIA. 5) (2.5A/250V) (CND)	
⚠F901	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) (2A/250V) (AUS)	
L1	1-456-281-11	COIL, FERRITE-ROD ANTENNA (AM)	
⚠T901	1-439-564-11	TRANSFORMER, POWER (US,CND,MX)	
⚠T901	1-439-565-11	TRANSFORMER, POWER (AUS)	

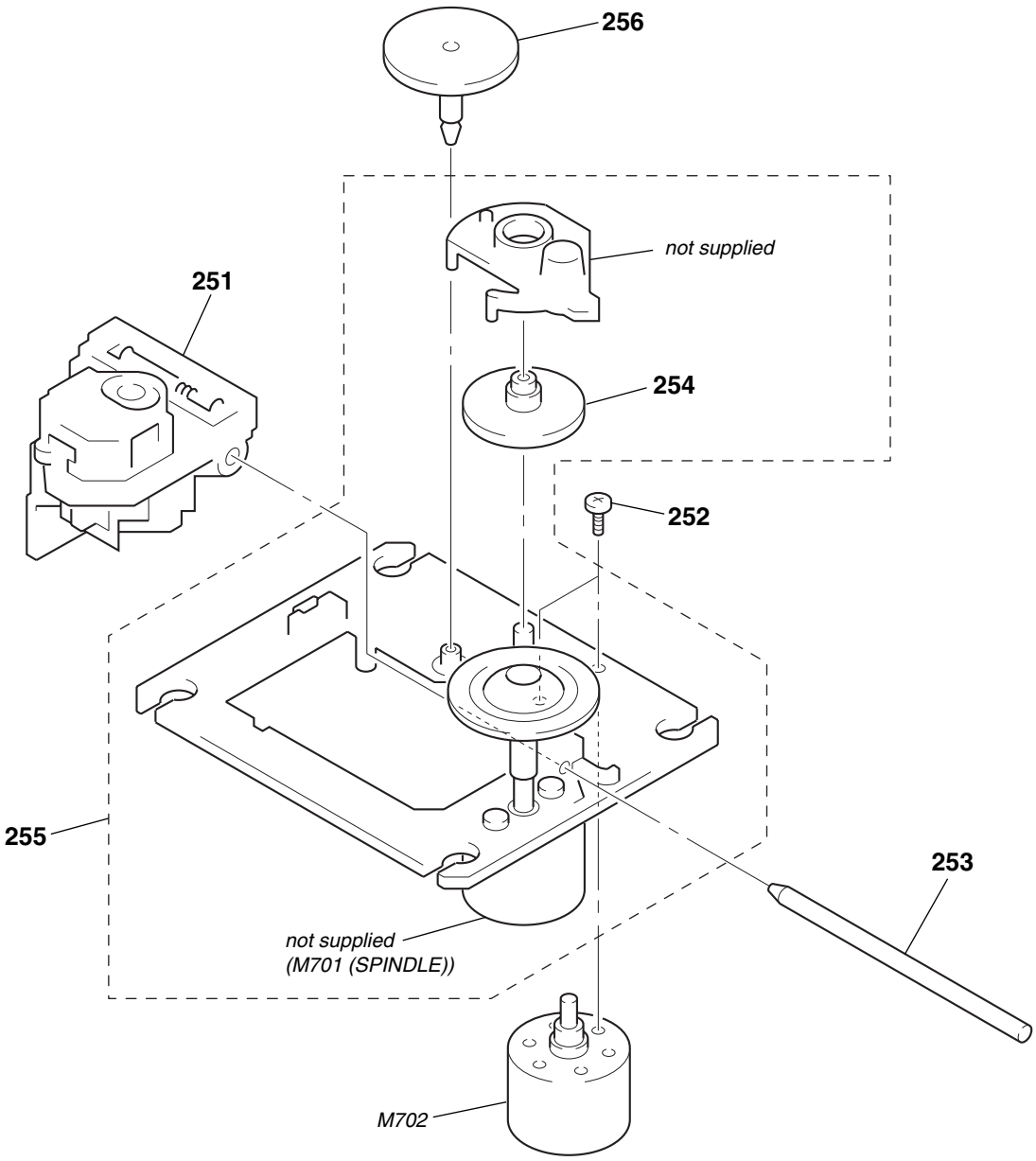
6-5. CD BLOCK SECTION



Ref. No.	Part No.	Description	Remark
201	3-923-736-01	COVER, CD	
202	3-046-853-11	RUBBER, VIBRATION PROOF (GREEN)	
203	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
204	1-962-805-11	CABLE, FLEXIBLE FLAT (16 CORE)	
205	1-830-245-11	CABLE, FLEXIBLE FLAT (14 CORE)	
206	7-685-853-04	SCREW +BVTT 2X6 (S)	

Ref. No.	Part No.	Description	Remark
207	A-4542-980-A	CD BOARD, COMPLETE	
208	3-046-853-01	RUBBER, VIBRATION PROOF (RED)	
209	2-541-551-01	CHASSIS (US,CND,MX)	
209	2-541-551-11	CHASSIS (AUS)	
210	2-596-504-01	CUSHION (A)	
211	2-596-505-01	CUSHION (B)	

6-6. CD MECHANISM SECTION (KSM-213CDP)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠251	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)	
252	2-174-500-01	SCREW (2X3)	
253	2-626-908-01	SHAFT, SLED	
254	2-627-003-01	GEAR (B) (RP)	
255	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (SPINDLE) (including M701)	
256	2-626-907-11	GEAR (A)	
M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- (Print color: PINK): Color of printer graphic of LID (CD)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

- Abbreviation
  CND : Canadian model
  MX : Mexican model
  AUS : Australian model

Ref. No.	Part No.	Description			Remark
	A-1094-521-A	BRIGHTNESS BOARD, COMPLETE			
		**********			
		< RESISTOR >			
R651	1-216-841-11	METAL CHIP	47K	5%	1/10W
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R653	1-216-841-11	METAL CHIP	47K	5%	1/10W
R654	1-216-837-11	METAL CHIP	22K	5%	1/10W
R655	1-216-837-11	METAL CHIP	22K	5%	1/10W
R656	1-216-837-11	METAL CHIP	22K	5%	1/10W
R657	1-216-837-11	METAL CHIP	22K	5%	1/10W
R658	1-216-837-11	METAL CHIP	22K	5%	1/10W
R660	1-216-864-11	SHORT CHIP	0		
		< VARIABLE RESISTOR >			
RV601	1-227-309-11	RES, VAR, CARBON 50K (BRIGHTNESS)			
		< SWITCH >			
S651	1-771-904-11	SWITCH, SLIDE (CD PLAY MODE)			
	A-4542-980-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C702	1-126-947-11	ELECT	47uF	20%	35V
C703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C704	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C705	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C706	1-126-960-11	ELECT	1uF	20%	50V
C707	1-115-156-11	CERAMIC CHIP	1uF		10V
C708	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C716	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C717	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C720	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C721	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C722	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C723	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C724	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C725	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C726	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C727	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C728	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C729	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C730	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C731	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C732	1-104-658-11	ELECT	100uF	20%	10V
C733	1-104-658-11	ELECT	100uF	20%	10V
C734	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C735	1-126-916-11	ELECT	1000uF	20%	6.3V
C736	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C738	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C739	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C740	1-126-925-11	ELECT	470uF	20%	10V
C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C744	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C745	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C746	1-104-658-11	ELECT	100uF	20%	10V
C747	1-104-658-11	ELECT	100uF	20%	10V
C750	1-104-658-11	ELECT	100uF	20%	10V
C751	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C754	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C755	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CNP701	1-779-553-21	CONNECTOR, FFC (LIF(NON-ZIF)) 16P			
* CNP702	1-784-736-11	CONNECTOR, FFC 14P			
		< FERRITE BEAD >			
FB701	1-469-701-21	FERRITE, EMI (SMD) (1608)			
		< IC >			
IC701	6-701-796-01	IC LC78646E-US-E			
IC702	6-701-787-11	IC BA5826FP-E2			
		< JUMPER RESISTOR >			
JC701	1-216-864-11	SHORT CHIP	0		
JC702	1-216-864-11	SHORT CHIP	0		
JC703	1-216-864-11	SHORT CHIP	0		
		< FERRITE BEAD >			
L706	1-414-445-11	FERRITE, EMI (SMD) (1608)			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q701	8-729-054-57	TRANSISTOR KTN2907AS-RTK			
		< RESISTOR >			
R701	1-216-841-11	METAL CHIP	47K	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-216-833-11	METAL CHIP	10K	5%	1/10W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R707	1-216-797-11	METAL CHIP	10	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-837-11	METAL CHIP	22K	5%	1/10W
R710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R711	1-216-809-11	METAL CHIP	100	5%	1/10W
R712	1-216-809-11	METAL CHIP	100	5%	1/10W
R713	1-216-813-11	METAL CHIP	220	5%	1/10W
R714	1-216-809-11	METAL CHIP	100	5%	1/10W
R715	1-216-809-11	METAL CHIP	100	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R718	1-216-821-11	METAL CHIP	1K	5%	1/10W
R719	1-216-809-11	METAL CHIP	100	5%	1/10W
R720	1-216-809-11	METAL CHIP	100	5%	1/10W
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W
R722	1-216-809-11	METAL CHIP	100	5%	1/10W
R723	1-216-809-11	METAL CHIP	100	5%	1/10W
R724	1-216-841-11	METAL CHIP	47K	5%	1/10W
R725	1-216-813-11	METAL CHIP	220	5%	1/10W
R726	1-216-813-11	METAL CHIP	220	5%	1/10W
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W
R729	1-216-813-11	METAL CHIP	220	5%	1/10W
R730	1-216-821-11	METAL CHIP	1K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R732	1-216-857-11	METAL CHIP	1M	5%	1/10W
R733	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R734	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R735	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R736	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R737	1-216-817-11	METAL CHIP	470	5%	1/10W
R738	1-216-817-11	METAL CHIP	470	5%	1/10W
R741	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R742	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R743	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R744	1-216-845-11	METAL CHIP	100K	5%	1/10W
R746	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R747	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S701	1-571-936-11	SWITCH, LEAF (LIMIT)			
		< VIBRATOR >			
X701	1-781-801-21	VIBRATOR, CERAMIC (16.93MHz)			

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Ref. No.	Part No.	Description			Remark
	A-1094-529-A	DRIVE BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CNP502	1-779-286-11	CONNECTOR, FFC (LIF(NON-ZIF)) 18P			
* CNP503	1-784-789-11	CONNECTOR, FFC 28P			
CNP601	1-779-543-21	CONNECTOR, FFC (LIF(NON-ZIF)) 6P			
		< TRANSISTOR >			
Q501	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q502	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q503	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q504	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q505	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q506	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q507	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q508	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q509	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q510	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q511	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q512	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q513	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q514	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q515	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q516	8-729-026-52	TRANSISTOR 2SA1576A-T106-R			
Q517	8-729-026-52	TRANSISTOR 2SA1576A-T106-R			
		< RESISTOR >			
R501	1-216-801-11	METAL CHIP	22	5%	1/10W
R502	1-216-801-11	METAL CHIP	22	5%	1/10W
R503	1-216-801-11	METAL CHIP	22	5%	1/10W
R504	1-216-801-11	METAL CHIP	22	5%	1/10W
R505	1-216-801-11	METAL CHIP	22	5%	1/10W
R506	1-216-801-11	METAL CHIP	22	5%	1/10W
R507	1-216-801-11	METAL CHIP	22	5%	1/10W
R508	1-216-801-11	METAL CHIP	22	5%	1/10W
R509	1-216-801-11	METAL CHIP	22	5%	1/10W
R510	1-216-801-11	METAL CHIP	22	5%	1/10W
R511	1-216-801-11	METAL CHIP	22	5%	1/10W
R512	1-216-801-11	METAL CHIP	22	5%	1/10W
R513	1-216-801-11	METAL CHIP	22	5%	1/10W
R514	1-216-801-11	METAL CHIP	22	5%	1/10W
R515	1-216-801-11	METAL CHIP	22	5%	1/10W
R516	1-216-841-11	METAL CHIP	47K	5%	1/10W
R517	1-216-837-11	METAL CHIP	22K	5%	1/10W
R518	1-216-849-11	METAL CHIP	220K	5%	1/10W
R519	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R520	1-216-833-11	METAL CHIP	10K	5%	1/10W
R521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R522	1-216-841-11	METAL CHIP	47K	5%	1/10W
R523	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W

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ICF-CD837

Ver. 1.1

INDICATOR **KEY** **MAIN**

Ref. No.	Part No.	Description			Remark
	A-1094-532-A	INDICATOR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C681	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C682	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< DIODE >			
D681	6-500-033-01	LED TOL-50BHRBKEA-KS04 (CD/RADIO)			
D682	6-500-033-01	LED TOL-50BHRBKEA-KS04 (NAP)			
		< TRANSISTOR >			
Q681	8-729-028-91	TRANSISTOR DTA144EUA-T106			
Q682	8-729-028-91	TRANSISTOR DTA144EUA-T106			
		< RESISTOR >			
R681	1-216-817-11	METAL CHIP	470	5%	1/10W
R682	1-216-817-11	METAL CHIP	470	5%	1/10W
**********					
	A-1094-510-A	KEY BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CNP602	1-779-543-21	CONNECTOR, FFC (LIF(NON-ZIF)) 6P			
		< RESISTOR >			
R601	1-216-849-11	METAL CHIP	220K	5%	1/10W
R602	1-216-853-11	METAL CHIP	470K	5%	1/10W
R603	1-216-849-11	METAL CHIP	220K	5%	1/10W
R604	1-216-845-11	METAL CHIP	100K	5%	1/10W
R605	1-216-845-11	METAL CHIP	100K	5%	1/10W
R606	1-216-841-11	METAL CHIP	47K	5%	1/10W
R608	1-216-837-11	METAL CHIP	22K	5%	1/10W
R609	1-216-841-11	METAL CHIP	47K	5%	1/10W
R610	1-216-837-11	METAL CHIP	22K	5%	1/10W
R612	1-216-833-11	METAL CHIP	10K	5%	1/10W
R614	1-216-849-11	METAL CHIP	220K	5%	1/10W
R615	1-216-845-11	METAL CHIP	100K	5%	1/10W
R616	1-216-845-11	METAL CHIP	100K	5%	1/10W
R617	1-216-841-11	METAL CHIP	47K	5%	1/10W
R619	1-216-837-11	METAL CHIP	22K	5%	1/10W
R620	1-216-841-11	METAL CHIP	47K	5%	1/10W
R621	1-216-837-11	METAL CHIP	22K	5%	1/10W
R623	1-216-833-11	METAL CHIP	10K	5%	1/10W
R625	1-216-841-11	METAL CHIP	47K	5%	1/10W
R626	1-216-841-11	METAL CHIP	47K	5%	1/10W
R627	1-216-841-11	METAL CHIP	47K	5%	1/10W
R628	1-216-837-11	METAL CHIP	22K	5%	1/10W
R629	1-216-837-11	METAL CHIP	22K	5%	1/10W
R630	1-216-837-11	METAL CHIP	22K	5%	1/10W
R631	1-216-837-11	METAL CHIP	22K	5%	1/10W
R632	1-216-837-11	METAL CHIP	22K	5%	1/10W
R634	1-216-841-11	METAL CHIP	47K	5%	1/10W
R635	1-216-841-11	METAL CHIP	47K	5%	1/10W
R636	1-216-841-11	METAL CHIP	47K	5%	1/10W
R637	1-216-837-11	METAL CHIP	22K	5%	1/10W
R638	1-216-837-11	METAL CHIP	22K	5%	1/10W
R639	1-216-837-11	METAL CHIP	22K	5%	1/10W
R640	1-216-837-11	METAL CHIP	22K	5%	1/10W
R641	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< SWITCH >			
S601	1-771-349-21	SWITCH, TACTILE (ALARM RESET/■/OFF)			
S602	1-771-349-21	SWITCH, TACTILE (RADIO ON)			
S603	1-771-349-21	SWITCH, TACTILE (CD/►II)			
S604	1-771-349-21	SWITCH, TACTILE (TIME SET –/I◄◄)			
S605	1-771-349-21	SWITCH, TACTILE (SLEEP)			
S606	1-786-050-21	SWITCH, KEYBOARD (SNOOZE/SLEEP OFF)			
S607	1-771-349-21	SWITCH, TACTILE (ALARM SET A)			
S608	1-771-349-21	SWITCH, TACTILE (NAP)			
S609	1-771-349-21	SWITCH, TACTILE (TIME SET +/►►I)			
S610	1-771-349-21	SWITCH, TACTILE (ALARM SET B)			
S611	1-771-904-11	SWITCH, SLIDE (ALARM MODE B)			
S612	1-771-904-11	SWITCH, SLIDE (ALARM MODE A)			
S653	1-771-349-21	SWITCH, TACTILE (CLOCK SET/TRACK)			
**********					
	A-1094-517-A	MAIN BOARD, COMPLETE (Print color:BLUE)			
	A-1141-206-A	MAIN BOARD, COMPLETE (Print color:PINK)			
		**********			
	2-541-553-01	HOLDER (ANTENNA)			
	3-252-829-01	SCREW (B3), (+) BV TAPPING			
	3-254-143-01	SCREW (B3), (+) BV TAPPING			
	3-382-175-41	KNOB (V) (GRAY)...(WHITE/BLACK)			
	3-382-175-71	KNOB (V) (WHITE)...(WHITE/BLACK)			
		< WIRE ANTENNA >			
ANT1	1-754-372-11	ANTENNA, FM WIRE			
		< BPF >			
BPF1	1-236-711-21	FILTER, BAND PASS			
		< CAPACITOR >			
C1	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C2	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C3	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C4	1-164-115-11	CERAMIC CHIP	5PF	0.25PF	50V
C8	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C9	1-126-963-11	ELECT	4.7uF	20%	50V
C11	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C14	1-115-156-11	CERAMIC CHIP	1uF		10V
C15	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C17	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C19	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C20	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C21	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C23	1-126-964-11	ELECT	10uF	20%	50V
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C29	1-126-935-11	ELECT	470uF	20%	16V
C31	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C34	1-162-997-11	CERAMIC CHIP	10PF	0.5PF	50V
C35	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C37	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C38	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C39	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C42	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C104	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C105	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C107	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C111	1-126-961-11	ELECT	2.2uF	20%	50V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C113	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C204	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C206	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C208	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-126-961-11	ELECT	2.2uF	20%	50V
C212	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C213	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C301	1-126-947-11	ELECT	47uF	20%	35V
C302	1-126-963-11	ELECT	4.7uF	20%	50V
C401	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C404	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C407	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C408	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C409	1-104-665-11	ELECT	100uF	20%	25V
C410	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C417	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C418	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C419	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C420	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C421	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C422	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C424	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C425	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C426	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C427	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C428	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C429	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C430	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C433	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C435	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C436	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C437	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C438	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C439	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C440	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C441	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C442	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C443	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C444	1-104-665-11	ELECT	100uF	20%	25V
C447	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C448	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C449	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C450	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C451	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C452	1-126-935-11	ELECT	470uF	20%	16V
C454	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C455	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C456	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C457	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C459	1-126-935-11	ELECT	470uF	20%	16V
C461	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C462	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C463	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C464	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C465	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C466	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C467	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C468	1-126-935-11	ELECT	470uF	20%	16V
C469	1-126-934-11	ELECT	220uF	20%	16V
C470	1-126-961-11	ELECT	2.2uF	20%	50V
C552	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C910	1-126-935-11	ELECT	470uF	20%	16V
C911	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C912	1-126-935-11	ELECT	470uF	20%	16V
C913	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C914	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C916	1-126-964-11	ELECT	10uF	20%	50V
C917	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C918	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C919	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C923	1-126-935-11	ELECT	470uF	20%	16V
C924	1-126-935-11	ELECT	470uF	20%	16V
C925	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

< FILTER >

CF1	1-781-962-11	FILTER, CERAMIC
CF2	1-567-390-11	FILTER, CERAMIC
CF3	1-795-233-11	FILTER, CERAMIC

< CONNECTOR >

* CNP303	1-815-448-11	PIN, CONNECTOR (PWB) 7P
* CNP402	1-784-789-11	CONNECTOR, FFC 28P
* CNP703	1-784-736-11	CONNECTOR, FFC 14P
CNP901	1-815-447-11	PIN, CONNECTOR (PWB) 6P

< VARIABLE CAPACITOR >

CT1-4	1-141-620-11	CAP, VAR
CV1-4	1-141-620-11	CAP, VAR (TUNING)

< DIODE >

D301	8-719-911-19	DIODE 1SS119-25

MAIN

Ref. No.	Part No.	Description			Remark
D401	8-719-911-19	DIODE 1SS119-25			
D402	8-719-911-19	DIODE 1SS119-25			
D403	8-719-063-79	DIODE 1N4002B			
D404	8-719-063-79	DIODE 1N4002B			
D907	8-719-911-19	DIODE 1SS119-25			
D908	8-719-911-19	DIODE 1SS119-25			
D909	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D910	8-719-911-19	DIODE 1SS119-25			
D911	6-500-021-01	DIODE MM3Z4V7ST1			
D912	8-719-911-19	DIODE 1SS119-25			
D913	8-719-063-79	DIODE 1N4002B			
D915	8-719-911-19	DIODE 1SS119-25			
D916	8-719-911-19	DIODE 1SS119-25			
		< IC >			
IC1	8-759-829-93	IC TA2111N			
IC401	6-802-658-01	IC uPD789477GC-A28-8BT			
IC402	8-759-682-21	IC XC61CN2002MR			
		< JUMPER RESISTOR >			
JC4	1-216-864-11	SHORT CHIP	0		
JC5	1-216-864-11	SHORT CHIP	0		
JC6	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1	1-456-281-11	COIL, FERRITE-ROD ANTENNA (AM)			
L2	1-456-015-11	COIL, AIR-CORE			
L4	1-406-040-00	COIL (OSC)			
L5	1-409-993-11	COIL, AIR-CORE			
L6	1-410-521-11	INDUCTOR	100uH		
L401	1-412-963-11	INDUCTOR	100uH		
L402	1-412-963-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q1	8-729-028-73	TRANSISTOR DTA114EUA-T106			
Q101	8-729-905-35	TRANSISTOR 2SC4081-R			
Q102	8-729-905-35	TRANSISTOR 2SC4081-R			
Q201	8-729-905-35	TRANSISTOR 2SC4081-R			
Q202	8-729-905-35	TRANSISTOR 2SC4081-R			
Q401	8-729-905-35	TRANSISTOR 2SC4081-R			
Q402	8-729-037-13	TRANSISTOR KTA1271Y			
Q551	8-729-037-13	TRANSISTOR KTA1271Y			
Q901	8-729-018-99	TRANSISTOR 2SD2394-F			
Q902	8-729-026-52	TRANSISTOR 2SA1576A-T106-R			
Q903	8-729-905-35	TRANSISTOR 2SC4081-R			
Q904	8-729-905-35	TRANSISTOR 2SC4081-R			
Q905	8-729-036-86	TRANSISTOR KTC3203Y-AT			
		< RESISTOR >			
R1	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4	1-216-817-11	METAL CHIP	470	5%	1/10W
R5	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7	1-216-821-11	METAL CHIP	1K	5%	1/10W
R13	1-216-817-11	METAL CHIP	470	5%	1/10W
R15	1-216-809-11	METAL CHIP	100	5%	1/10W
R101	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R102	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R103	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R104	1-216-845-11	METAL CHIP	100K	5%	1/10W
R105	1-216-821-11	METAL CHIP	1K	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R109	1-216-833-11	METAL CHIP	10K	5%	1/10W
R110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R201	1-216-845-11	METAL CHIP	100K	5%	1/10W
R202	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R203	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R204	1-216-845-11	METAL CHIP	100K	5%	1/10W
R205	1-216-821-11	METAL CHIP	1K	5%	1/10W
R206	1-216-821-11	METAL CHIP	1K	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R221	1-216-833-11	METAL CHIP	10K	5%	1/10W
R222	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R308	1-216-821-11	METAL CHIP	1K	5%	1/10W
R309	1-216-821-11	METAL CHIP	1K	5%	1/10W
R310	1-216-821-11	METAL CHIP	1K	5%	1/10W
R401	1-216-821-11	METAL CHIP	1K	5%	1/10W
R402	1-216-821-11	METAL CHIP	1K	5%	1/10W
R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
R404	1-216-821-11	METAL CHIP	1K	5%	1/10W
R405	1-216-821-11	METAL CHIP	1K	5%	1/10W
R406	1-216-821-11	METAL CHIP	1K	5%	1/10W
R407	1-216-821-11	METAL CHIP	1K	5%	1/10W
R408	1-216-821-11	METAL CHIP	1K	5%	1/10W
R409	1-216-821-11	METAL CHIP	1K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-849-11	METAL CHIP	220K	5%	1/10W
R412	1-216-845-11	METAL CHIP	100K	5%	1/10W
R414	1-216-845-11	METAL CHIP	100K	5%	1/10W
R415	1-216-849-11	METAL CHIP	220K	5%	1/10W
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R417	1-216-845-11	METAL CHIP	100K	5%	1/10W
R418	1-216-849-11	METAL CHIP	220K	5%	1/10W
R419	1-216-833-11	METAL CHIP	10K	5%	1/10W
R420	1-216-833-11	METAL CHIP	10K	5%	1/10W
R421	1-216-841-11	METAL CHIP	47K	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R423	1-216-841-11	METAL CHIP	47K	5%	1/10W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R425	1-216-841-11	METAL CHIP	47K	5%	1/10W
R426	1-216-833-11	METAL CHIP	10K	5%	1/10W
R427	1-216-821-11	METAL CHIP	1K	5%	1/10W
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W
R429	1-216-821-11	METAL CHIP	1K	5%	1/10W
R430	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-821-11	METAL CHIP	1K	5%	1/10W
R436	1-216-833-11	METAL CHIP	10K	5%	1/10W
R437	1-216-821-11	METAL CHIP	1K	5%	1/10W
R438	1-216-821-11	METAL CHIP	1K	5%	1/10W
R439	1-216-821-11	METAL CHIP	1K	5%	1/10W
R440	1-216-837-11	METAL CHIP	22K	5%	1/10W
R441	1-216-833-11	METAL CHIP	10K	5%	1/10W
R443	1-216-837-11	METAL CHIP	22K	5%	1/10W
R444	1-216-845-11	METAL CHIP	100K	5%	1/10W
R445	1-216-833-11	METAL CHIP	10K	5%	1/10W
R446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R447	1-216-821-11	METAL CHIP	1K	5%	1/10W
R448	1-216-821-11	METAL CHIP	1K	5%	1/10W
R449	1-216-821-11	METAL CHIP	1K	5%	1/10W
R450	1-216-821-11	METAL CHIP	1K	5%	1/10W
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W
R452	1-216-821-11	METAL CHIP	1K	5%	1/10W
R456	1-216-821-11	METAL CHIP	1K	5%	1/10W
R457	1-216-813-11	METAL CHIP	220	5%	1/10W
R458	1-216-821-11	METAL CHIP	1K	5%	1/10W
R459	1-216-821-11	METAL CHIP	1K	5%	1/10W
R460	1-216-853-11	METAL CHIP	470K	5%	1/10W
R461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R462	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R463	1-216-821-11	METAL CHIP	1K	5%	1/10W
R464	1-216-833-11	METAL CHIP	10K	5%	1/10W
R465	1-249-413-11	CARBON	470	5%	1/4W
R466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R467	1-216-833-11	METAL CHIP	10K	5%	1/10W
R468	1-216-833-11	METAL CHIP	10K	5%	1/10W
R469	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R551	1-216-813-11	METAL CHIP	220	5%	1/10W
R552	1-216-841-11	METAL CHIP	47K	5%	1/10W
R903	1-216-833-11	METAL CHIP	10K	5%	1/10W
R904	1-216-833-11	METAL CHIP	10K	5%	1/10W
R905	1-216-805-11	METAL CHIP	47	5%	1/10W
R906	1-216-805-11	METAL CHIP	47	5%	1/10W
R907	1-216-809-11	METAL CHIP	100	5%	1/10W
R908	1-216-817-11	METAL CHIP	470	5%	1/10W
R909	1-216-809-11	METAL CHIP	100	5%	1/10W
R910	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R911	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R912	1-216-841-11	METAL CHIP	47K	5%	1/10W
R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< VARIABLE RESISTOR >			
RV301	1-225-764-12	RES, VAR, CARBON 20KX2 (VOLUME)			
		< SWITCH >			
S1	1-692-181-21	SWITCH, SLIDE (BAND) (BLACK)...(WHITE/BLACK)			
S1	1-692-181-51	SWITCH, SLIDE (BAND) (GRAY)...(WHITE)			
		< COIL >			
T1	1-424-703-11	COIL (AM IFT)			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X401	1-760-252-12	VIBRATOR, CRYSTAL (32kHz)			
X402	1-795-054-21	VIBRATOR, CERAMIC (4.19MHz)			
**********					
	A-1094-524-A	POWER BOARD, COMPLETE (US,MX)			
	A-1097-513-A	POWER BOARD, COMPLETE (AUS)			
	A-1106-404-A	POWER BOARD, COMPLETE (CND)			
		**********			
	1-533-233-31	HOLDER, FUSE (CND,AUS)			
		< CAPACITOR >			
C116	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C119	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C120	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C121	1-126-916-11	ELECT	1000uF	20%	6.3V
C216	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C218	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C220	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C221	1-126-916-11	ELECT	1000uF	20%	6.3V
C303	1-126-963-11	ELECT	4.7uF	20%	50V
C304	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C305	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C308	1-104-665-11	ELECT	100uF	20%	25V
C309	1-124-231-61	ELECT	4.7uF	20%	16V
C311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C312	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C901	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C902	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C903	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C904	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C906	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C907	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C908	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C909	1-126-937-11	ELECT	4700uF	20%	16V
		< CONNECTOR >			
CNP302	1-815-445-11	PIN, CONNECTOR (PWB) 4P			
		< DIODE >			
D302	8-719-941-09	DIODE DAP202U			
D901	8-719-988-61	DIODE 1SS355TE-17			
D902	8-719-988-61	DIODE 1SS355TE-17			
D903	8-719-063-79	DIODE 1N4002B			
D904	8-719-063-79	DIODE 1N4002B			
D905	8-719-063-79	DIODE 1N4002B			
D906	8-719-063-79	DIODE 1N4002B			
		< IC >			
IC301	6-701-061-01	IC LA4627-E			
		< COIL >			
L901	1-410-513-11	INDUCTOR	22uH		

Ref. No.	Part No.	Description			Remark
L902	1-410-513-11	INDUCTOR	22uH		
		< TRANSISTOR >			
Q104	6-550-364-01	TRANSISTOR	2SD2652T106		
Q204	6-550-364-01	TRANSISTOR	2SD2652T106		
Q301	8-729-028-83	TRANSISTOR	DTA124EUA-T106		
		< RESISTOR >			
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R114	1-216-821-11	METAL CHIP	1K	5%	1/10W
R115	1-216-845-11	METAL CHIP	100K	5%	1/10W
R116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R117	1-216-849-11	METAL CHIP	220K	5%	1/10W
R118	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R119	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R120	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R214	1-216-821-11	METAL CHIP	1K	5%	1/10W
R215	1-216-845-11	METAL CHIP	100K	5%	1/10W
R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R217	1-216-849-11	METAL CHIP	220K	5%	1/10W
R218	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R219	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R220	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R303	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R304	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R307	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R901	1-216-845-11	METAL CHIP	100K	5%	1/10W
R902	1-216-841-11	METAL CHIP	47K	5%	1/10W
		< TERMINAL >			
TM901	1-535-771-31	TERMINAL (AUS)			
TM902	1-535-771-31	TERMINAL (AUS)			

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
57	1-830-248-11	CABLE, FLEXIBLE FLAT (18 CORE)	
58	1-830-247-11	CABLE, FLEXIBLE FLAT (6 CORE)	
102	1-452-899-11	MAGNET	
⚠151	1-757-636-11	CORD, POWER (US,CND)	
⚠151	1-769-339-82	CORD, POWER (MX)	
⚠151	1-790-431-21	CORD, POWER (AUS)	
161	1-830-246-11	CABLE, FLEXIBLE FLAT (28 CORE)	
204	1-962-805-11	CABLE, FLEXIBLE FLAT (16 CORE)	
205	1-830-245-11	CABLE, FLEXIBLE FLAT (14 CORE)	
⚠251	8-848-483-12	OPTICAL PICK-UP (KSS-213C/C2RP1)	
255	X-2162-709-2	CHASSIS ASSY (CDP), MOTOR (SPINDLE) (including M701)	
CNP501	1-779-286-11	CONNECTOR, FFC (LIF(NON-ZIF)) 18P	
⚠F901	1-533-450-12	FUSE, GLASS TUBE (DIA. 5) (2.5A/250V) (CND)	
⚠F901	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) (2A/250V) (AUS)	
LED501	1-479-172-11	ELEMENT UNIT, LED INDICATOR	
M702	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
S401	1-692-960-11	SWITCH, PUSH (1 KEY) (⏏ PUSH OPEN/CLOSE)	
SP101	1-825-274-11	SPEAKER (6.6cm) (L-CH)	
SP201	1-825-274-11	SPEAKER (6.6cm) (R-CH)	
⚠T901	1-439-564-11	TRANSFORMER, POWER (US,CND,MX)	
⚠T901	1-439-565-11	TRANSFORMER, POWER (AUS)	
		ACCESSORIES	
		**********	
	2-580-555-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, GERMAN,SPANISH,ITALIAN,PORTUGUESE) (CND,AUS,MX)	
	2-580-555-21	MANUAL, INSTRUCTION (ENGLISH) (US)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.02	New
1.1	2005.07	Pink print model addition to US model. (SPM-05107)